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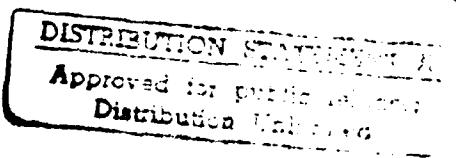
DEPARTMENT OF THE  
ARMY

JUSTIFICATION OF ESTIMATES FOR  
FY 1990/FY 1991 BIENNIAL BUDGET

PROCUREMENT APPROPRIATIONS-CONSTRUCTION PROGRAM  
SUBMITTED TO CONGRESS

JANUARY 1989

DTIC  
ELECTED  
FEB 23 1989  
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Key: Tables data, Statistical data, Congress,  
Cost estimates, Army budgets. (KA)

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SECTION 1 - FY 1990

DEPARTMENT OF THE ARMY  
FISCAL YEAR 1990  
MILITARY CONSTRUCTION PBS  
(DOLLARS ARE IN THOUSANDS)  
INSIDE THE UNITED STATES

STATE	INSTALLATION (COMMAND)		AUTHORIZATION APPROPRIATION PERCENT		
	PROJECT NUMBER	PROJECT TITLE	REQUEST	REQUEST	DESIGN PAGE
Alabama	Redstone Arsenal (AMC)				
	28567	Pilot Production Complex	6,100	6,100	NA
	SUBTOTAL Redstone Arsenal		\$ 6,100	6,100	
	* TOTAL PBS FOR Alabama		\$ 6,100	6,100	
Indiana	Indiana Army Ammunition Plant (AMC)				
	22920	Lightning Protection	1,200	1,200	NA
	27798	Harden Shiphouse Buildings	1,950	1,950	NA
	28382	Bulk Propellant Verification Facility	2,750	2,750	NA
	SUBTOTAL Indiana Army Ammunition Plant		\$ 5,900	5,900	
	* TOTAL PBS FOR Indiana		\$ 5,900	5,900	
Iowa	Iowa Army Ammunition Plant (AMC)				
	16712	Construct Truck Docks	610	610	NA
	31275	Steam Lines	630	630	NA
	31276	Rehabilitate Rest Rooms	220	220	NA
	31277	Construct Truck Dock	240	240	NA
	SUBTOTAL Iowa Army Ammunition Plant		\$ 1,700	1,700	
	* TOTAL PBS FOR Iowa		\$ 1,700	1,700	
Kansas	Sunflower Army Ammunition Plant (AMC)				
	28862	Enclosure for Deconter in Building	370	370	NA
	SUBTOTAL Sunflower Army Ammunition Plant		\$ 370	370	
	* TOTAL PBS FOR Kansas		\$ 370	370	
Louisiana	Louisiana Army Ammunition Plant (AMC)				
	6312	Security - Replace Guard Gates	1,500	1,500	NA
	28850	Construct Storage Buildings	200	200	NA
	28860	Chemical Storage Buildings	500	500	NA
	28873	Storage Buildings	530	530	NA
	SUBTOTAL Louisiana Army Ammunition Plant		\$ 2,730	2,730	
	* TOTAL PBS FOR Louisiana		\$ 2,730	2,730	

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SECTION 1 - FY 1990

DEPARTMENT OF THE ARMY  
FISCAL YEAR 1990  
MILITARY CONSTRUCTION (PBS)  
(DOLLARS ARE IN THOUSANDS)  
INSIDE THE UNITED STATES

STATE	INSTALLATION (COMMAND)		APPROPRIATION REQUEST PERCENT			
	PROJECT NUMBER	PROJECT TITLE	BUDGET REQUEST	REQUEST	DESIGN	PAGE
Missouri		Lake City Army Ammunition Plant (AMC)				
	26225	Replace Storage Building	590	590	NA	29
	27410	Alternate Electric Power for Waste	240	240	NA	31
	27747	Fire Detection and Dragoon System	1,500	1,500	NA	34
		SUBTOTAL Lake City Army Ammunition Plant	\$ 2,330	2,330		
		• TOTAL PBS FOR Missouri	\$ 2,330	2,330		
Tennessee		Holston Army Ammunition Plant (AMC)				
	21521	Electrical Safety Connections	1,850	1,850	NA	37
	27372	Construct Firebreaks	590	590	NA	40
	27375	Gas Pipe Line	160	160	NA	42
		SUBTOTAL Holston Army Ammunition Plant	\$ 2,800	2,800		
		Miles Army Ammunition Plant (AMC)				
	28873	Earth Covered Igloo - Line B	390	390	NA	44
	28896	Earth Covered Igloo - Line A	390	390	NA	46
		SUBTOTAL Miles Army Ammunition Plant	\$ 780	780		
		• TOTAL PBS FOR Tennessee	\$ 3,580	3,580		
Texas		Longhorn Army Ammunition Plant (AMC)				
	28719	Fire Alarm Reporting System	900	900	NA	48
	28724	Security Fencing and Signs	230	230	NA	51
		SUBTOTAL Longhorn Army Ammunition Plant	\$ 1,130	1,130		
		• TOTAL PBS FOR Texas	\$ 1,130	1,130		
Virginia		Radford Army Ammunition Plant (AMC)				
	25364	Replace Five Barricades	1,350	1,350	NA	53
	29231	Replace Hazardous Waste Surface	2,300	2,300	NA	55
	29232	Construct Sludge Drying Bed	280	280	NA	58
		SUBTOTAL Radford Army Ammunition Plant	\$ 3,930	3,930		
		• TOTAL PBS FOR Virginia	\$ 3,930	3,930		
		**TOTAL INSIDE THE UNITED STATES FOR PBS	\$ 27,770	27,770		

DEPARTMENT OF THE ARMY  
MILITARY CONSTRUCTION - FESI - FY 1990

INSTALLATION LIST

INSTALLATION	MONTH	PAGE
Hoistco Army Ammunition Plant	AMC	37
Indiana Army Ammunition Plant	AMC	10
Iowa Army Ammunition Plant	AMC	7
Lake City Army Ammunition Plant	AMC	28
Longhorn Army Ammunition Plant	AMC	48
Louisiana Army Ammunition Plant	AMC	17
Milan Army Ammunition Plant	AMC	44
Padford Army Ammunition Plant	AMC	53
Redstone Arsenal	AMC	1
Sunflower Army Ammunition Plant	AMC	15

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SECTION 1 - FY 1990

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 82		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
Redstone Arsenal, Alabama	Pilot Production Complex		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
73011A	100	13567	5,100
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	BUDGET COST
<u>Primary Facility</u>			
Main Laboratory Building	SF	22,700	150.00
Casting and Finishing Annex	SF	4,000	236.00
Aging Storage Annex	SF	5,200	55.00
Ancillary Storage Facility	SF	1,500	125.00
<u>Supporting Facilities</u>			
Electric Service	LS	-	-
Water, Sewer & Gas	LS	-	-
Steam, Chilled Water & Heat Distribution	LS	-	-
Paving, Walks, Curbs & Gutters	LS	-	-
Site Improvement	LS	-	-
<u>Subtotal</u>			5,252
Contingency (10.00%)			525
Total Contract Cost			5,777
Supervision, Inspection & Overhead (5.50%)			318
Total Request			6,095
Total Request (Rounded)			6,100
Installed Equipment - Other Appropriations			101
10. Description of proposed construction: Construct a 1.1 Pilot Production complex that consists of a Main Building of approximately 22700 SF, a Aging Storage Annex of approximately 5200 SF, a Casting and Finishing Annex of 4000 SF and ancillary storage space of approximately 1500 SF. The Main Building is approximately 50 % pure laboratory space and 50 % laboratory support space. The laboratory space will require concrete blast walls surrounding the bays. A compressed air system and specialized temperature humidity controls system will be required throughout the facility. A 15 ton overhead crane will be required in the Casting and Finishing Annex. Supporting facilities include fire protection, storm drainage, and parking for each building. The heat for these facilities will be provided by an existing steam plant. Air conditioning will be provided by self contained systems. Approximately 100 tons of air conditioning will be required to adequately cool the new facilities. This complex will replace existing deteriorating World War II facilities. The existing operations in these World War II facilities are in violation of AMC-R 385-100. Relocating these functions in the new complex will relieve these operations of any AMC-R 385-100 safety code violations.			
11. REQUIREMENT: 33,400 SF ADEQUATE: None SUBSTANDARD: 31,765 SF			

1. COMPONENT	1. DATE	
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
2. INSTALLATION AND LOCATION	JULY 1989	
Redstone Arsenal, Alabama	3. PROJECT NUMBER	
4. PROJECT TITLE	4. PROJECT NUMBER	
Pilot Production Complex	13567	
II. REQUIREMENTS (Continued)		
<p><u>PROJECT:</u> Replacement facilities are needed for the Propellant Aging Storage function, Propellant Analysis and Characterization Lab, and Pilot Production Manufacturing Area.</p> <p><u>REQUIREMENT:</u> This complex is needed in order to provide new facilities for the Propellant Aging Storage function and a portion of the 1.1 Pilot Production/Manufacturing operation Materials Lab functions that are currently operating in World War II facilities. It is not economically feasible to continue to spend Above Normal Maintenance money on these facilities especially when the functions being performed in these buildings are operating under "grandfather" clauses subsequent to the latest AMC-R 385-100 revision. The complex will also provide new facilities for the Propellant Analysis and Characterization Lab which is operating in better facilities (built in the mid 1950's) but are also operating under "grandfather" safety clauses. These "grandfather" clauses make it impossible for the operations to expand in their existing locations which do not meet safety requirements per AMC-R 385-100. The new complex will provide modern facilities which will be more economical to maintain, provide better environmental control conditions, and allow the PBS contractor to comply with the revised safety regulations. Also, this will allow for the abandonment and subsequent demolition of the older facilities that are not economical to maintain.</p>		
<p><u>CURRENT SITUATION:</u> Current operations are in facilities that were built between 1942 and 1956. Most of these facilities are not economically feasible to repair. The older buildings were designed as artillery shell loading facilities while newer buildings were only designed for 1.3 hazard type propellants. The new 1.1 hazard type propellant has more demanding building safety requirements, greater inhabited building distances and requires physical separation from 1.3 hazard type propellants (which in turn requires more floorspace). As a result of the recent revisions to AMC-R 385-100, which requires more stringent enforcement of 1.1 requirements, the majority of the operations in their present location are not in compliance and are operating under "grandfather" clauses. These operations will be in compliance with AMC-R 385-100 when relocated to the new complex. In addition, many of the required temperature and humidity control requirements are not being met in the older facilities.</p>		
<p><u>IMPACT IF NOT PROVIDED:</u> This new complex will house support operations related to 1.1 and 1.3 propellant for Hellfire, Tow, Maverick, MK-70, MK-36, Patriot, Slat, and VSTT missile systems. All of these programs will be impacted due to the limited and inadequate support facilities. As support facilities, these laboratories and test facilities have an indirect but important impact on the efficient and economical manufacture of the above mentioned programs. In addition, the PBS contractor and adjacent government facilities will continue to be exposed to quantity distances that have been waived as a result of the revised AMC-R 385-100. Expansion of existing</p>		

1. COMPONENT	2. DATE	
ARMY-PBS	FY 1989 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION	JAN 89	
Redstone Arsenal, Alabama		
4. PROJECT TITLE	5. PROJECT NUMBER	
Pilot Production Complex	28567	
6. REQUIREMENTS: (Continued)		
IMPACT IF NOT PROVIDED: (Continued)		
facilities will be impossible without additional waivers. Also, environmental temperature and humidity control will continue to be a problem because of the antiquated systems in the existing facilities. The lack of proper humidity control hinders the quality of the manufacturing/testing process.		
ADDITIONAL: This project has been coordinated with the installation physical security plan and required security improvements are included.		
<p>/s/          Frank Chrisman          Chief          Physical Security Branch          (205)875-9998</p>		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date .....		
(b) Percent Complete As Of 01 January 89 (BDGT YR).....		
(c) Percent Complete As Of 01 October 89 (PROG YR).....		
(d) Design Complete Date .....		
(2) Basis:		
(a) Standard or Definitive Design - Yes ____ No ____		
(b) Where Design Was Most Recently Used _____		
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)		
(a) Production of Plans and Specifications .....		
(b) All Other Design Costs .....		
(c) Total Cost .....		
(d) Contract .....		
(e) In-house .....		
(4) Construction Start ..... month & year		
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested Cost (\$000)
None		

1. COMPONENT ARMY-PBS	2. DATE JAN 89		
3. INSTALLATION AND LOCATION INCLINE ARMY AMMUNITION PLANT, INDIANA		4. PROJECT TITLE Lightning Protection	
5. PROGRAM ELEMENT 420	6. CATEGORY CODE 10900	7. PROJECT NUMBER 10900	8. PROJECT COST 1,079
9. COST ESTIMATES			
ITEM	QTY	UNIT COST	ITEM COST
<u>Primary Facility</u>			
Supporting Facilities			
Lightning Protection	LS	-	1,079
Subtotal			
Contingency (5.00%)			54
Total Contract Cost			1,133
Supervision, Inspection & Overhead (5.50%)			62
Total Request			1,195
Total Request (Rounded)			1,200
Installed Equipment - Other Appropriations			
10. Description of Proposed Construction Install new and upgrade existing lightning protection systems for compliance with AMCR 385-100. Work to include installation of air terminals on covered galleries at load lines and the powder preparation area, air terminals on air handlers, air terminals over vehicle parking sites at explosive buildings, addition of down conductors, replacement of u-bolt connectors with UL listed connectors, and complete lightning protection systems on certain critical buildings.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: To provide updated lightning protection for mobile material handling equipment in accordance with AMCR 385-100.			
REQUIREMENT: This project is required to correct lightning protection deficiencies.			
CURRENT SITUATION: Currently, lightning protection is not adequate to provide protection to mobile material handling equipment being used during loading or unloading of ammunition items/components.			
IMPACT IF NOT PROVIDED: If this project is not provided, mobile material handling equipment will not have lightning protection, with consequent risk to both personnel and equipment.			
ADDITIONAL: An economic analysis is not necessary for the project. All			

1. COMPONENT	2. DATE	
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION	JAN 88	
4. PROJECT TITLE	5. PROJECT NUMBER	
Lightning Protection	10000	
6. REQUIREMENT: (Continued)		
ADDITIONAL: (Continued)		
potential alternatives were examined in the development of the project and none were found to be feasible.		
7. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	Feb 88	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 89 (PROG YR)	100	
(d) Design Complete Date	NOV 88	
(2) Basis:		
(a) Standard or Definitive Design - Yes	No	A
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)		
(a) Production of Plans and Specifications	167	
(b) All Other Design Costs	167	
(c) Total Cost	167	
(d) Contract	115	
(e) In-house	52	
(4) Construction Start JUN 88		
months & year		
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested Cost (\$000)
MOD-AMC	PA, A 4211	90 48
		TOTAL 48

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		1 JAN 1990	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Indiana Army Ammunition Plant, Indiana		Harden Shiphouse Buildings	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (1000)
		100	1,950
		100000	1,950
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	AMT COST
Primary Facility Shiphouse Buildings	LS	-	1,774
Subtotal			1,774
Contingency (5.00%)			89
Total Contract Cost			1,863
Supervision, Inspection & Overhead (5.50%)			102
Total Request			1,955
Total Request (Rounded)			1,950
Installed Equipment - Other Appropriations			550
10. Description of Proposed Construction			
Empty, decontaminate, and place 3/4-inch plywood on walls and ceiling rafters, and subsequently rewarehouse 118 shiphouses			
This project to harden all 118 shiphouses at INAAP is to comply with Paragraph 8.2.a., Chapter 5, DOD 5100.76 M; and 8-1 B, AR 190-11, Security Requirement in the Storage of Category III Explosives.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: This project to harden all 118 shiphouses at INAAP is to comply with Paragraph 8.2.a., Chapter 5, DOD 5100.76 M; and 8-1 B, AR 190-11, Security Requirement in the Storage of Category III Explosives.			
REQUIREMENT: To comply with the existing security requirement, INAAP is operating in subject buildings based on a temporary waiver until such time as construction to harden the shiphouses has been completed. The Security Survey Inspection - Indiana Army Ammunition Plant, dated 11 Dec 1984 supports the imperative need for this project.			
CURRENT SITUATION: Currently, INAAP is operating in subject buildings based on a temporary waiver until such time as construction to harden the shiphouses has been completed.			
IMPACT IF NOT PROVIDED: If this project is not approved, INAAP will be in continuous violation of the security requirement in Paragraph 8.2.a., Chapter			

1. COMPONENT	DATE														
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA														
2. INSTALLATION AND LOCATION	JAN 90														
Install Army Ammunition Plant, Indiana															
3. PROJECT TITLE	PROJECT NUMBER														
Harden Shiphouse Building	107708														
4. REQUIREMENT: Continued.															
IMPACT IF NOT PROVIDED: Continued.															
5. DOD 5100.76 M and 6-1B, AR 130-11.															
6. SUPPLEMENTAL DATA:															
A. Estimated Design Data:															
(1) Status:															
(a) Design Start Date	May 88														
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100														
(c) Percent Complete As Of 01 October 89 (PROG YR)	100														
(d) Design Complete Date	Nov 88														
(2) Basis:															
(a) Standard or Definitive Design - Yes	No														
(b) Where Design Was Most Recently Used															
(3) Total Cost (c) = (a)-(b) or (d)-(e): (\$000)															
(a) Production of Plans and Specifications															
(b) All Other Design Costs															
(c) Total Cost															
(d) Contract															
(e) In-house															
(4) Construction Start: Apr 90															
Month & Year															
B. Equipment associated with this project which will be provided from other appropriations:															
<table border="1"> <thead> <tr> <th rowspan="2">Equipment Nomenclature</th> <th rowspan="2">Procuring Appropriation</th> <th colspan="2">Fiscal Year</th> </tr> <tr> <th>Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td>MOD-AMC</td> <td>PA,A 4211</td> <td>90</td> <td>559</td> </tr> <tr> <td></td> <td></td> <td>TOTAL</td> <td>559</td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year		Appropriated Or Requested	Cost (\$000)	MOD-AMC	PA,A 4211	90	559			TOTAL	559
Equipment Nomenclature	Procuring Appropriation			Fiscal Year											
		Appropriated Or Requested	Cost (\$000)												
MOD-AMC	PA,A 4211	90	559												
		TOTAL	559												

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 83		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
INTEGRATED AMMUNITION PLANT, INDIANA	5. Bulk Propellant Verification		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT DATE
		115	1990
9. COST ESTIMATES			
ITEM	U.M.	QUANTITY	UNIT COST
Primary Facility	LSF	-	2,472
Bulk Prop. Verification Facility			2,472
Subtotal			2,472
Contingency (5.00%)			124
Total Contract Cost			2,596
Supervision, Inspection & Overhead (5.50%)			143
Total Request			2,739
Total Request (Rounded)			2,730
Installed Equipment - Other Appropriations			100
10. Description of Proposed Construction			
The bulk propellant verification facility will consist of three inspection bays, four storage cubicles and office, break, and mechanical areas as shown on PDB-1 drawing 200-000-089 and Corps of Engineers drawings T17-D5 and Specification 216-12-01. The facility requires barrier wall construction in accordance with TM 5-1300. The work will require sprinklers, deluge and lightning protection and include heating and air conditioning. Electrical apparatus in the inspection area will meet Class II, Division 1, Group G. Access road, truck docks and transit vehicle parking will be provided. Accessibility for the handicapped not required for functional reasons.			
11. REQUIREMENT: 8,135 SF ADEQUATE: None SUBSTANDARD: 8,135 SF			
PROJECT: This project will provide a facility that complies with safety regulations for a life cycle and assessment program of the aging characteristics and their effect on chemical stability and physical deterioration of energetic materials.			
REQUIREMENT: Facilities meeting safety requirements do not exist at INAAP for ammunition surveillance in accordance with SB 742-1300-94-2.			
CURRENT SITUATION: The bulk propellant surveillance operation is currently accomplished in a shiphouse: a structure with wood plank floors creating a			

1. COMPONENT	2. DATE		
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
3. INSTITUTION AND LOCATION	4. PROJECT NUMBER		
Additional Army Administration Plans, Inc.	Project 11-1452		
5. PROJECT TITLE	6. PROJECT NUMBER		
Bulk Propellant Verification Facility	11-1452		
7. REQUIREMENTS: (Continued)			
CURRENT SITUATION: (Continued)			
potential hazard of lodgement of energetic material in the floor's cracks and crevices. This building has no deluge or sprinkler system and does not comply with explosive safety regulations.			
IMPACT IF NOT PROVIDED: A Request for Waiver to operate in the 'as is' condition would be required.			
ADDITIONAL: This project has been reviewed for compliance with AR 11-28, Economic Analysis/Program Evaluation Policy and is exempt from the requirement to perform an economic analysis per paragraph 1-3.d(3) of AR 11-28. This exemption applies when there is no feasible alternative.			
12. SUPPLEMENTAL DATA			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date ..... May 88			
(b) Percent Complete As Of 01 January 89 (BDGT YR) ..... 100			
(c) Percent Complete As Of 01 October 89 (PROG YR) ..... 100			
(d) Design Complete Date ..... Nov 88			
(2) Basis:			
(a) Standard or Definitive Design - Yes _____ No _____			
(b) Where Design Was Most Recently Used _____			
(3) Total Cost (c) = (a)-(b) or (d)-(e):			
(a) Production of Plans and Specifications _____			
(b) All Other Design Costs _____			
(c) Total Cost ..... _____			
(d) Contract ..... _____			
(e) In-house ..... _____			
(4) Construction Start ..... Apr 90			
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost
Equipment	PA, A	90	'5000
		TOTAL	393

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
ARMY-PBS				JAN 89
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
Iowa Army Ammunition Plant, Iowa	Construct Truck Docks			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	
70011A	006	16712	1000000	\$100
9. COST ESTIMATES				
ITEM	10. UNIT	11. QUANTITY	12. COST	13. COST
Primary Facility	EA	4	151,000	\$25
TRUCK DOCKS YD 3				\$25
Subtotal				\$25
Contingency (10.00%)				\$3
Total Contract Cost				\$28
Supervision, Inspection & Overhead (5.50%)				\$1.52
Total Request				\$29.52
Total Request (Rounded)				\$30
Installed Equipment - Other Appropriations				
14. Description of Proposed Construction	THESE YARD 3 WAREHOUSES ARE ABOVE-GROUND MAGAZINE STRUCTURES, OF PERMANENT CONCRETE & MASONRY CONSTRUCTION, MEASURING APPROXIMATELY 50 FEET WIDE X 500 FEET LONG. THEY ARE ELEVATED ABOVE GRADE TO RAIL CAR HEIGHT, AND A SPUR TRACK AND OPEN DOCK PLATFORM RUNS THE LENGTH OF THEIR EAST SIDES. IT IS PROPOSED TO BUILD AN ACCEPTABLE TRUCK DOCK TO REPLACE THE MAKESHIFT FACILITY THAT NOW AFFORDS TO ONLY MOTOR VEHICLE ACCESS TO THESE STRUCTURES.			
15. REQUIREMENT:	1 LS ADEQUATE: None SUBSTANDARD: None			
PROJECT:	CONSTRUCT 7 NEW TRUCK DOCK ADDITIONS TO 7 EXISTING ELEVATED WAREHOUSES, BLDG. NOS 10-41-10 THRU 16.			
REQUIREMENT:	THIS PROJECT IS REQUIRED TO PROVIDE SAFE AND ADEQUATE FACILITIES FOR THE HANDLING OF MATERIAL FROM MOTOR TRUCKS TO THE WAREHOUSES, IN ACCORDANCE WITH THE CONSTRUCTION REQUIREMENTS OF OSHA 1910.39.			
CURRENT SITUATION:	THE CURRENT DOCKING FACILITIES ARE A MAKE-SHIFT COMBINATION OF WOOD AND CONCRETE WHICH IS HUNG ONTO THE NARROW END OF THE RAIL PLATFORM AT ONE END OF EACH WAREHOUSE. THEY HAVE NO RAILINGS, ENCLOSURES, OR PERMANENT DOCKBOARDS AND ARE BECOMING STRUCTURALLY QUESTIONABLE BECAUSE OF THEIR ADVANCING AGE. IN ADDITION, THEY ARE JUST TOO SMALL TO PROPERLY HANDLE AN ELECTRIC FORKLIFT, AND THE ACCESS ROADS TO THEM ARE NARROW CRUSHED ROCK			

1. COMPONENT	2. DATE		
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
3. INSTALLATION AND LOCATION	Page 13		
Iowa Army Ammunition Plant, Iowa			
4. PROJECT TITLE	5. PROJECT NUMBER		
Construct IAAAP Docks	16711		
6. REQUIREMENT: Continued			
CURRENT SITUATION: Continued			
PATHS:			
IMPACT IF NOT PROVIDED: THE IAAAP WILL CONTINUE TO OPERATE IN VIOLATION OF OSHA 1910.39 RA CODE III C4. IF THIS CONDITION PERSISTS, THE IAAAP WILL CONTINUE TO BE SUSCEPTIBLE TO A SAFETY HAZARD. CONTINUING TO ALLOW THIS CONDITION IS IN DIRECT VIOLATION OF HIGHER COMMAND MANDATE TO MAINTAIN A ZERO ACCIDENT POSTURE. THIS SITUATION PROMOTES THE RISK TO HUMAN LIFE AND PROPERTY AND EQUIPMENT DAMAGE.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Mar 88		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	Dec 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e).			
(a) Production of Plans and Specifications	5000		
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 90		
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
	None		

1. COMPONENT		2. DATE			
FY 1990 MILITARY CONSTRUCTION PROJECT DATA					
ARMY-936		JAN 88			
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Iowa Army Ammunition Plant, Iowa		Steam Lines			
5. PROGRAM ELEMENT		6. CATEGORY CODE			
7. PROJECT NUMBER		8. PROJECT COST (1000)			
800		11075	1000000		
9. COST ESTIMATES					
ITEM		Q/TY	QUANTITY	UNIT COST	1000
Primary Facility INSULATE STEAM LINES		LS	-	-	542
Subtotal					542
Contingency (10.00%)					54
Total Contract Cost					596
Supervision, Inspection & Overhead (5.50%)					33
Total Request					629
Total Request (Rounded)					630
Installed Equipment - Other Appropriations					0
10. Description of Proposed Construction		Repair/Replace damaged steam lines insulation add two additional inches of new insulation, and install new aluminum jacketing on all of the 1.7 miles of steam line that comprises the Line 3A distribution system.			
11. REQUIREMENT:		None ADEQUATE: None SUBSTANDARD: None			
PROJECT:		This project will provide for the repair and improvement of insulation for the purpose of reducing heat loss and waste of energy.			
REQUIREMENT:		Project is required to save money thru energy conservation and help achieve our long range energy conservation plan goals.			
CURRENT SITUATION:		The existing insulation is 45 year old asphalt-paper wrapped material and in many instances has fallen off, exposing bare pipe.			
IMPACT IF NOT PROVIDED:		High maintenance costs and energy losses associated with the deteriorated insulation will continue.			
12. SUPPLEMENTAL DATA:					
A. Estimated Design Data:					
(1) Status:					
(a) Design Start Date ..... Mar 88					
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100					

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PAGE NO. 9

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
ARMY-PBS	1. DATE 10/1/89		
2. INSTALLATION AND LOCATION	3. PROJECT NUMBER 11375		
Joint Readiness Training Center, Iowa			
4. PROJECT TITLE			
5. TEAM LINES			
6. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data (Continued)			
(1) Status (Continued)			
(c) Percent Complete As Of 31 October 89 (PROG YR)		100	
(d) Design Complete Date		Dec 88	
(2) Basis:			
(a) Standard or Definitive Design - Yes		No	
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)-(b) or (d)-(e) \$000			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start Apr 90 month & year			
7. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation None	Fiscal Year Appropriated Or Requested	Cost \$000

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
ARMY-PBS	CART 20		
2. INSTALLATION AND LOCATION	PROJECT TITLE		
LOWA - FARM INSTITUTION PLANT, IOWA	Rehabilitate Rest Rooms		
3. PROGRAM ELEMENT	4. CATEGORY CODE	5. PROJECT NUMBER	6. PROJECT NAME
7.3011A	126	11075	8.0000
7. COST ESTIMATES			
ITEM	U. S.	QUANTITY	1000
<u>Primary Facility</u>			
Rehab Rest Rooms	EA	3	62,000
<u>Subtotal</u>			196
<u>Contingency (10.00%)</u>			19
<u>Total Contract Cost</u>			205
<u>Supervision, Inspection &amp; Overhead (5.50%)</u>			11
<u>Total Request</u>			216
<u>Total Request (Rounded)</u>			216
Installed Equipment - Other Appropriations			
8. Description of Proposed Construction			
Construct three each 400 sq. ft. rest room additions; one on each of buildings 3A-05-1, 3A-20-1, & 3A-28. Handicapped access not required for functional reasons.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
<u>PROJECT:</u> Construct single-story, wood-framed, metal sided, concrete slab floored building additions to contain separate rest room facilities for men & women.			
<u>REQUIREMENT:</u> To provide modern sanitation facilities for approximately 10 each male and female production operators, in accordance with current OSHA standards.			
<u>CURRENT SITUATION:</u> Building 3A-05-1 has two rest rooms which are inadequate for the number of people that work in the building. Building 3A-28 has only one rest room which must be used jointly by men and women. Building 3A-20-1 has no rest room at all.			
<u>IMPACT IF NOT PROVIDED:</u> We will continue to operate in non-compliance with OSHA regulations.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			

1. COMPONENT	2. DATE	
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION	4. PROJECT NUMBER	
4. PROJECT NUMBER	5. PROJECT NUMBER	
Recreational Facilities	12213	
6. SUPPLEMENTAL DATA. Continued		
A. Estimated Design Data. Continued		
(1) Status:		
(a) Design Start Date	Mar 86	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 89 (PROG YR)	100	
(d) Design Complete Date	NOV 88	
(2) Basis:		
(a) Standard or Definitive Design - Yes	No	
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)+(b) or (d)+(e) (\$000)		
(a) Production of Plans and Specifications		
(b) All Other Design Costs		
(c) Total Cost		
(d) Contract		
(e) In-house		
(4) Construction Start ..... month & year		
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested
	None	\$000

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		MAR 88	
3. INSTITUTION AND LOCATION		4. PROJECT TITLE	
DODGE FIELD, AMERICAN FALLS, IDAHO		CONSTRUCTION PROJECT DATA	
5. PROGRAM ELEMENT		6. CATEGORY CODE	
6. CATEGORIES		7. PRODUCT NUMBER	
CODE		8. PRODUCT COST	
CODE		9. COST ESTIMATE	
ITEM		10. QUANTITY	
		11. UNIT COST	
Primary Facility		12. COST	
BUILT 5A-29 TRUCK DOCK		EA	
Subtotal		206	
Contingency (10.00%)		21	
Total Contract Cost		227	
Supervision, Inspection & Overhead (5.50%)		12	
Total Request		239	
Total Request (Rounded)		240	
Installed Equipment - Other Appropriations		1	
13. Description of Proposed Construction		Construct an approximately 900 sq ft addition to the northwest corner of building 5A-29. Structure to have a 3-day depressed dock well, a pre-engineered steel frame and sided enclosure and contain automatic dock boards, heat and light. Accessibility for handicapped not required for functional reasons.	
14. REQUIREMENT:		None ADEQUATE: None SUBSTANDARD: None	
PROJECT:		Construct a truck dock addition to this Line 5 assembly building for the purpose of handling incoming production components.	
REQUIREMENT:		Structure is needed to promote the safe and efficient handling of component deliveries.	
CURRENT SITUATION:		IJ Incoming material must be handled in the open from semi trailer spotted on the parking lot the north side of the building.	
IMPACT IF NOT PROVIDED:		The current situation must continue.	
15. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date Mar 88			
(b) Percent Complete As Of 01 January 89 (DOGT YR) -00			

1. COMPONENT	2. DATE		
ARMY-988	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
3. INSTALLATION AND LOCATION	4. PROJECT NUMBER		
Joint Base Lewis-McChord, WA, USA	5. PROJECT NUMBER		
6. PROJECT TITLE	6. PROJECT NUMBER		
Construct Brick Deck	7.1.1.1		
10. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data (Continued)			
1. Status: (Continued)			
(c) Percent Complete As Of 01 October 89 (PROG YR) ..... 100			
(d) Design Complete Date ..... Dec 88			
(2) Basis:			
(a) Standard or Definitive Design - Yes _____ No _____			
(b) Where Design Was Most Recently Used _____			
(3) Total Cost (c) = (a)+(b) or (d)+(e): \$3000			
(a) Production of Plans and Specifications _____			
(b) All Other Design Costs _____			
(c) Total Cost _____			
(d) Contract _____			
(e) In-house _____			
(4) Construction Start ..... Apr 90			
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost
None			\$3000

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-BB6		10/10/89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
DARLAWES ARMY AMMUNITION PLANT, LEXAS		DARLAWES 1000 DEDICATED TO AMMUNITION	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
405	18802	18802	18802
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
<u>Primary Facility</u>			
CONSTRUCT FACILITY	SF	3,300	14.32
EQUIPMENT	LS	-	132
Subtotal			322
Contingency (10.00%)			32
Total Contract Cost			354
Supervision, Inspection & Overhead (5.50%)			20
Total Request			374
Total Request (Rounded)			374
Installed Equipment - Other Appropriations			
<u>10. Description of Proposed Construction</u> This Subproject provides for the construction of an enclosure over eight (8) Process Tanks to prevent precipitation from entering the Building Sump. The building to be open on the south side only for exhausting of fumes and allowing access to process equipment from existing building. All building materials to be immune to an ammonia environment			
<u>11. REQUIREMENT:</u> None <u>ADEQUATE:</u> None <u>SUBSTANDARD:</u> None			
<u>CURRENT SITUATION:</u> The eight (8) process tanks are uncovered and are subjected to extreme weather conditions, primarily cold and wet. The snow and ice build-up on the tank pads create a serious personnel hazard. However, the more serious matter is the rainfall that fills the building sumps thus resulting in additional water requiring waste treatment. The building sumps are needed to handle process upsets and in order to insure a safe level in the sumps, continued pumping of the sumps is needed during rainy season. This still does not guarantee available sump capacity should an unavoidable process upset occur and results in a hazardous waste spill.			
<u>IMPACT IF NOT PROVIDED:</u> If this subproject is not provided, continued exposure to contaminated waste spills exists and would result in unscheduled plant shutdown for extended period of time.			

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UNTIL EXHAUSTED

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1. COMPONENT	2. DATE	
ARMY-PBS	JAN 83	
3. INSTALLATION AND LOCATION		
Sandover Army Ammunition Plant, Kansas		
4. PROJECT TITLE	5. PROJECT NUMBER	
Enclosure for Decanter in Building		
6.1. SUPPLEMENTAL DATA		
A. Estimated Design Data		
(1) Status:		
(a) Design Start Date	Jul 83	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 89 (PROG YR)	100	
(d) Design Complete Date	Nov 86	
(2) Basis:		
(a) Standard or Definitive Design - Yes	No	
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)-(b) or (d)-(e)		5000
(a) Production of Plans and Specifications		
(b) All Other Design Costs		
(c) Total Cost		
(d) Contract		
(e) In-house		
(4) Construction Start		Apr 90
		month & year
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested
	None	5000

1. COMPONENT	1. DATE			
FY 1990 MILITARY CONSTRUCTION PROJECT DATA				
2. APMY-PBS	JAN 89			
3. INSTALLATION AND LOCATION	PROJECT TITLE			
Louisiana Army Ammunition Plant, Louisiana Security - Replace Guard Gates				
4. PROGRAM ELEMENT	5. WORK CODE	6. PROJECT NUMBER	7. PROJECT TITLE	
8. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	AMOUNT
<b>Primary Facility</b>				
Sentry Station	SET	1,040	208.00	215,120
Sentry Station	SET	488	208.00	102,304
<b>Supporting Facilities</b>				
Security Fencing Arms and Ammo.	LSI	-	-	1,030
<b>Subtotal</b>				1,348
Contingency (5.00%)				67
<b>Total Contract Cost</b>				1,415
Supervision, Inspection & Overhead (5.50%)				73
<b>Total Request</b>				1,488
<b>Total Request (Rounded)</b>				1,500
Installed Equipment - Other Appropriations				
10. Description of Proposed Construction				
PROVIDE GUARD GATE FACILITY, PARKING AREA, SECURITY FENCE (RELOCATION AND NEW) AND GATES, EXTERIOR LIGHTING, AND ALL REQUIRED SUPPORTING UTILITIES (SEWAGE, WATER, NATURAL GAS, ELECTRICAL POWER, TELEPHONE).				
PROVIDE GUTTERS AND STORM DRAINS.				
SITE IMPROVEMENTS CONSISTS OF A MINOR AMOUNT OF EXCAVATION AND FILL (LESS THAN 24" BOTH WAYS) AND THE ESTABLISHMENT OF LAWN IN THE AREA DISTURBED BY CONSTRUCTION.				
FULL INSULATION OF BUILDING IS REQUIRED.				
ON COMPLETION OF CONSTRUCTION DEMOLISH 2 BUILDINGS (155 SQ FT)				
ACCESSIBILITY FOR THE HANDICAPPED WILL NOT BE PROVIDED BECAUSE OF SAFETY AND FUNCTIONAL REASONS.				
PRIMARY ENERGY SOURCE FOR HEATING SHOULD BE NATURAL GAS.				
PRIMARY ENERGY SOURCE FOR AIR CONDITIONING SHOUD BE FURNISHED FROM ELECTRICAL SOURCE.				
THIS SCOPE OF WORK IS NOT SITED IN A FLOOD PLAIN.				
INDUSTRIAL PREPAREDNESS MEASURES PROJECT IDENTIFICATION NUMBER IS 3LA063				
Replace area perimeter fences with FE-5 type fence. Replacement of fences shall include, but is not limited, to gates, drainage ditch security grates.				

1. COMPONENT	2. DATE
FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
ARMY-PBS	JULY 23
3. INSTALLATION AND LOCATION	
Louisiana Army Ammunition Plant, Louisiana	
4. PROJECT TITLE	5. PROJECT NUMBER
Security - Replace Guard Gates	
6. DESCRIPTION OF PROPOSED CONSTRUCTION (Continued)	
proper electrical grounding and lay dirt work or sodding. Areas requiring fence replacement and approximate linear feet required are:	
Area C 9,512 lf.	
Area E 2,535 lf.	
Area S 9,264 lf.	
Area B 1,636 lf.	
(Pipe, steel, and Dunnage yards)	
Area N 9,130 lf.	
Area L-1-12,846 lf.	
Area L-2-12,090 lf.	
62,013 lf.	
7. REQUIREMENT: 6,833 SF ADEQUATE 487 SF SUBSTANDARD 6,346 SF	
<u>PROJECT</u> PROVIDE FACILITY TO HOUSE GUARD FUNCTION. PROVIDE ONE EACH PERIMETER GATE FOR GATE 1 AND GATE 3; PROVIDE PARKING AREA FOR INCOMING TRAFFIC; RELOCATE AND PROVIDE ADDITIONAL FE-5 SECURITY FENCE; PROVIDE FLOOD LIGHT ILLUMINATION; AND PROVIDE REST ROOM, VISITOR REGISTRATION AREA, AND TRAFFIC CONTROL AREA IN THE GUARD HOUSE. Provide and install FE-5 fence to replace existing perimeter security fence at Areas C, E, S, L-1 and L-2. Provide security fence at Area N and selected sections of Area B.	
<u>REQUIREMENT</u> : EXISTING GATE HOUSE #3 WAS CONSTRUCTED IN 1941 AND IS OF TEMPORARY CONSTRUCTION. THE BUILDING IS OF FRAME CONSTRUCTION, NOT INSULATED, TRANSITE SIDING, ELECTRIC HEATED, ON CONCRETE SLAB, AND CONTAINS NO REST ROOM AND WATER. PERSONNEL WHICH REQUIRE RELIEF MUST BE RELIEVED BY A PATROL. NEAREST REST ROOM IS LOCATED IN AREA S, A DISTANCE OF 2 MILES.	
EXISTING GATE HOUSE #1 WAS CONSTRUCTED IN 1967. IT IS OF FRAME CONSTRUCTION WITH BRICK VENEER LOWER HALF WALL. IT IS ELECTRICALLY HEATED, WITH WATER COOLER, AND IS NOT EQUIPPED WITH SANITARY FACILITIES.	
IN GENERAL, THE PHYSICAL SIZE AND DESIGN IS NOT ADEQUATE FOR CURRENT ACTIVITY REQUIREMENTS. The existing fences will be 49 years old except Area S which will be 45 years old in FY90. The use of production areas, when explosives are involved, classifies the area as "LIMITED". As such, an FE-5 type fence is required. Ref. DoD 5160.65M, pg. 12-6-1 and 5100.76M, pg. 5-2, Par. C.	
<u>CURRENT SITUATION</u> : THE CURRENT OPERATION OF GATE 1 REQUIRES THAT VISITOR PASSES BE ISSUED IN BUILDING A-102 WHICH IS LOCATED NEAR GATE 1. ALL OTHER SECURITY FUNCTIONS ARE HANDLED BY GATE 1 AS ASSIGNED.	
GATE 3 IS NOT PRESENTLY EQUIPPED TO HANDLE VISITORS. Production area perimeter fences are maintained and patched where possible, but are utilized in their present deteriorated condition.	
<u>IMPACT IF NOT PROVIDED</u> : IF REPLACEMENT FACILITIES ARE PROVIDED THE CAPABILITIES WILL REMAIN RESTRICTED. THE PHYSICAL SECURITY ASPECTS OF BOTH BUILDINGS ARE INCAPABLE OF MEETING GOOD PHYSICAL SECURITY PRACTICES. Failure to approve this project will result in the continued use of deteriorated and	

1. COMPONENT	1. DATE								
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA								
2. INSTALLATION AND LOCATION	JAN 90								
Louisiana Army Communication Plant, Louisiana									
3. PROJECT NUMBER	3. PROJECT NUMBER								
Security - Replica Guard Boxes	4010								
5. REQUIREMENT (Continued)									
IMPACT IF NOT PROVIDED (Continued)									
Inadequate facilities.									
ADDITIONAL: An exemption to requirements of an economic analysis is requested in accordance with provisions AR 11-28, Para 1-3d(3). Regulatory references are: DoD 5150.65M and 5100.76M.									
AN ECONOMIC ANALYSIS FORM 3 WILL BE SUBMITTED AT A LATER DATE. An exemption to requirements of an economic analysis is requested in accordance with provisions AR 11-28, Para. 1-3d(3). Regulatory references are: DoD 5150.65M and 5100.76M.									
12. SUPPLEMENTAL DATA									
A. Estimated Design Data:									
(1) Status:									
(a) Design Start Date	Jun 89								
(b) Percent Complete As Of 01 January 89 (EDCT YR)	90								
(c) Percent Complete As Of 01 October 89 (PROG YR)	100								
(d) Design Complete Date	Feb 89								
(2) Basis:									
(a) Standard or Definitive Design - Yes	No								
(b) Where Design Was Most Recently Used	Not Used								
(3) Total Cost (c) = (a)+(b) or (d)+(e): \$5000									
(a) Production of Plans and Specifications									
(b) All Other Design Costs									
(c) Total Cost									
(d) Contract									
(e) In-house									
(4) Construction Start: Apr 90									
month & year									
B. Equipment associated with this project which will be provided from other appropriations:									
<table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td colspan="4">None</td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)	None			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)						
None									

1. COMPONENT		1. DATE	
ARMY-PBS		JAN 93	
2. INSTALLATION AND LOCATION		3. PROJECT NAME	
Louisiana Army Ammunition Plant, Louisiana Construct Storage Buildings			
4. PROGRAM ELEMENT		5. CATEGORY CODE	
6. PROJECT NUMBER		7. PROJECT COST (EST)	
420		8850	100
8. COST ESTIMATES			
ITEM	U/M	QUANTITY	EST COST
Primary Facility			174
Storage Igloos - Area T-6	SF	1,010	172.28
			174
See Cost Estimates (Continued)			10
Subtotal			174
Contingency (10.00%)			17
Total Contract Cost			191
Supervision, Inspection & Overhead (5.50%)			11
Total Request			202
Total Request (Rounded)			200
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction		Excavate site as necessary and construct three earth covered igloos with van dock. One igloo is to be 12 ft X 13 ft X 7 ft 6 inches high and two igloos will be 10 ft X 13 ft X 7 ft 6 inches high. All igloos will be connected by van dock 6 ft X 95 ft long X 48 inches high. Provide one dock leveler mounted in dock. Igloos are to be covered with a minimum of 24 inches of earth. Provide hard surface access driveway from existing road. An intrusion detection system must be provided on all igloos. System includes providing and installing armored fiber optic transmission cable routed most feasible route to guard headquarters. Provide and install one explosion proof light in each igloo with on/off switch and a dock floodlight on front of each igloo. IDS switches will be GFM, but will be installed by this project.	
11. REQUIREMENT: 1,010 SF ADEQUATE: None SUBSTANDARD: None			
PROJECT: Storage facilities are required in test Area T-6 to house items to be tested as well as the explosive components required for demolition testing. Currently there is no storage facilities.			
REQUIREMENT: Facilities for storing explosives must meet security construction criteria as set forth in AR 190-11 and DOD 5100.76-M, Ch. 4 & 5.			
CURRENT SITUATION: Current remote storage space does not meet the criteria			

1. COMPONENT		3. DATE													
FY 1990 MILITARY CONSTRUCTION PROJECT DATA															
ARMY-PBS		JAN 89													
2. INSTALLATION AND LOCATION															
Louisiana Army Ammunition Plant, Louisiana															
4. PROJECT TITLE		5. PROJECT NUMBER													
Construct Storage Buildings		02861													
6. Cost Estimates (Continued)															
<table border="1"> <thead> <tr> <th>Item</th> <th>U/M Quantity</th> <th>Unit Cost</th> <th>Cost \$000</th> </tr> </thead> <tbody> <tr> <td>Primary Facility (Continued)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Total</td> <td>0</td> </tr> </tbody> </table>		Item	U/M Quantity	Unit Cost	Cost \$000	Primary Facility (Continued)						Total	0		
Item	U/M Quantity	Unit Cost	Cost \$000												
Primary Facility (Continued)															
		Total	0												
11. REQUIREMENT: (Continued)															
CURRENT SITUATION: (Continued)															
and drastically slows testing operations due to the lack of on site storage and time required to retrieve remotely stored components. Items awaiting testing are stored on the production assembly line. This space is required for production holding capacity.															
IMPACT IF NOT PROVIDED: Failure to approve this project will force continued use of facilities which do not meet the criteria required by AR 190-11 and DOD 5100.76-M, Ch. 4 & 5. Items awaiting testing will continue to be held on the production lines thereby reducing the production.															
ADDITIONAL: Exemption to requirements of an economic analysis is requested in accordance with provisions of AR 11-28 Para 1-3d(3). Igloos are required by AR 190-11, Ch. 4 and DOD 5100.76-M, Ch. 4 & 5.															
12. SUPPLEMENTAL DATA:															
A. Estimated Design Data:															
(1) Status:															
<table border="1"> <tr> <td>(a) Design Start Date</td> <td>Nov 88</td> </tr> <tr> <td>(b) Percent Complete As Of 01 January 89 (3DGT YR)</td> <td>99</td> </tr> <tr> <td>(c) Percent Complete As Of 01 October 89 (PROG YR)</td> <td>100</td> </tr> <tr> <td>(d) Design Complete Date</td> <td>Jan 90</td> </tr> </table>				(a) Design Start Date	Nov 88	(b) Percent Complete As Of 01 January 89 (3DGT YR)	99	(c) Percent Complete As Of 01 October 89 (PROG YR)	100	(d) Design Complete Date	Jan 90				
(a) Design Start Date	Nov 88														
(b) Percent Complete As Of 01 January 89 (3DGT YR)	99														
(c) Percent Complete As Of 01 October 89 (PROG YR)	100														
(d) Design Complete Date	Jan 90														
(2) Basis:															
<table border="1"> <tr> <td>(a) Standard or Definitive Design - Yes</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td></td> </tr> </table>				(a) Standard or Definitive Design - Yes	No	(b) Where Design Was Most Recently Used									
(a) Standard or Definitive Design - Yes	No														
(b) Where Design Was Most Recently Used															
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)															
<table border="1"> <tr> <td>(a) Production of Plans and Specifications</td> <td></td> </tr> <tr> <td>(b) All Other Design Costs</td> <td></td> </tr> <tr> <td>(c) Total Cost</td> <td></td> </tr> <tr> <td>(d) Contract</td> <td></td> </tr> <tr> <td>(e) In-house</td> <td></td> </tr> </table>				(a) Production of Plans and Specifications		(b) All Other Design Costs		(c) Total Cost		(d) Contract		(e) In-house			
(a) Production of Plans and Specifications															
(b) All Other Design Costs															
(c) Total Cost															
(d) Contract															
(e) In-house															
(4) Construction Start Mar 90 month & year															

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 83		
3. INSTALLATION AND LOCATION			
Louisiana Army Ammunition Plant, Louisiana			
4. PROJECT TITLE	5. PROJECT NUMBER		
Construct Storage Buildings			
6. SUPPLEMENTAL DATA (Continued)			
7. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u> None	Fiscal Year <u>Appropriated</u> <u>Or Requested</u>	Cost \$5000

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA				2. DATE
ARMY-BBS					20M 10
3. INSTALLATION AND LOCATION	4. PROJECT TITLE				
Louisiana Army Ammunition Plant, Louisiana Chemical Storage Buildings					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT TYPE	9. CBO	
7301A	441	13860	442	400	
10. COST ESTIMATES					
ITEM	Q.M.	QUANTITY	11. UNIT COST	12. TOTAL	
<u>Primary Facility</u>					428
Flammable Material Storehouse	57	2.908	147.13		428
<b>Subtotal</b>					428
<b>Contingency (10.00%)</b>					43
<b>Total Contract Cost</b>					471
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>					26
<b>Total Request</b>					497
<b>Total Request (Rounded)</b>					500
Installed Equipment - Other Appropriations					
13. Description of Proposed Construction					
<p>This project will provide for new chemical storage buildings to be built on production lines to store chemicals used in the production and production support areas. These chemicals are normally stored in 55 gallon drums, then emptied to smaller containers for transfer to the use point. These buildings require spill containment provisions in the building foundation, proper ventilation, emergency eyewash facilities, provisions for unloading trucks, and freeze protection. Work to be accomplished at each area is as follows: AREA B - Construct a 16 ft. x 22 ft. concrete block building connecting to B-1402. Concrete floor to have curb, center drain, and sump with manually operated electric pump. Provide roof and wall vents, all required utilities, Class I, Group D electrical wiring and fixtures, lighting, grounding points, and lightning protection. Provide space heaters for freeze protection, double doors and a means of unloading trucks. AREA C - Construct a 16' x 20' concrete block building with curbed concrete floor, center drain and sump with manually operated electric pump. Building to be constructed with insulated metal roof, roof and wall vents, set of double steel doors with provisions for off loading trucks, and a window in other remaining walls. Utilities include Class I, Group D wiring and fixtures, lighting, grounding points, lightning protection, and space heaters.</p>					

1. COMPONENT	2. DATE																
ARMY-BBS	JAN 89																
3. INSTALLATION/PRO LOCATION																	
Louisiana Army Ammunition Plant, Louisiana																	
4. PROJECT TITLE	5. PROJECT NUMBER																
Chemical Storage Buildings	13360																
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Continued</p> <p>for freeze protection. Install 14 ft. wide driveway. AREA D - Construct two each 14 ft. X 24 ft. concrete block (or equivalent) buildings with curbed concrete floor, center drain and sump with manually operated electric pump. Buildings to be constructed with insulated metal roofs, roof and wall vents, a set of double steel doors with provisions for off loading trucks, and window in other remaining walls. Utilities include Class I, Group D wiring and fixtures, lighting protection and space heaters for freeze protection. Provide 14 ft. wide concrete driveway. AREA Y - Construct a 16 ft. X 22 ft addition to Building Y-2602 of concrete block to match existing structure. Install a curbed concrete block to match existing structure. Install a curbed concrete floor with center drain and sump with manually operated electric pump. Roof to be bar joist supported 5 ply built-up roof over 3/4 inch insulation board. Provide roof and wall vents, and additional 10 ft X 10 ft rollup door and one additional window. Remove window in north end of existing structure and convert to doorway. Install space heater for freeze protection. Utilities to include Class I, Group D wiring and fixtures, lighting, and lightning protection. After new construction is complete, raze existing buildings C-1354, D01206, D-1243, D-1244, E-1725, and S-1609. Total square feet to be razed is 2,329. Accessibility for the handicapped not required for safety reasons.</p>																	
<p>11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None</p> <p>PROJECT: Provide 2,900 sq. ft. of chemical storage space meeting the requirements of AMCR 385-100 and AR 200-1, 40CFR12.</p> <p>REQUIREMENT: Present existing facilities do not meet provisions of AMCR 385-100 or AR200-1, 40CFR12.</p> <p>CURRENT SITUATION: Substandard buildings which do not meet regulation requirements and are being operated under a safety waiver.</p> <p>IMPACT IF NOT PROVIDED: Chemical storage buildings that do not meet regulation requirements must continue to operate under safety waiver and continue.</p>																	
<p>12. SUPPLEMENTAL DATA:</p> <p>A. Estimated Design Data:</p> <p>(1) Status:</p> <table> <tr> <td>(a) Design Start Date</td> <td>May 88</td> </tr> <tr> <td>(b) Percent Complete As Of 01 January 89 (BDGT YR)</td> <td>95</td> </tr> <tr> <td>(c) Percent Complete As Of 01 October 89 (PROG YR)</td> <td>100</td> </tr> <tr> <td>(d) Design Complete Date</td> <td>Jan 89</td> </tr> </table> <p>(2) Basis:</p> <table> <tr> <td>(a) Standard or Definitive Design - Yes</td> <td>—</td> <td>No</td> <td>—</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td colspan="3"></td> </tr> </table> <p>(3) Total Cost (c) = (a)+(b) or (d)+(e): <span style="float: right;">(\$000)</span></p>		(a) Design Start Date	May 88	(b) Percent Complete As Of 01 January 89 (BDGT YR)	95	(c) Percent Complete As Of 01 October 89 (PROG YR)	100	(d) Design Complete Date	Jan 89	(a) Standard or Definitive Design - Yes	—	No	—	(b) Where Design Was Most Recently Used			
(a) Design Start Date	May 88																
(b) Percent Complete As Of 01 January 89 (BDGT YR)	95																
(c) Percent Complete As Of 01 October 89 (PROG YR)	100																
(d) Design Complete Date	Jan 89																
(a) Standard or Definitive Design - Yes	—	No	—														
(b) Where Design Was Most Recently Used																	

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION			
Chemical Agent Disposal Facility, Louisiana			
4. PROJECT TITLE	PROJECT 269		
Chemical Storage Buildings 100000			
5. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data (Continued)			
(1) Total Cost (Continued)	60000		
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start	Jun 90		
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year <u>Appropriated</u> <u>Or Requested</u>	Cost <u>(\$000)</u>
None			

COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA			DATE
ARMY-PBS				JAN 1990
1. INSTALLATION AND LOCATION	PROJECT TITLE			
Logistics - 1000 Ammunition Plant - Logistics Storage Buildings				
2. PROGRAM ELEMENT	3. PROJECT CODE	4. PROJECT NAME	5. PROJECT COST	
100	08870	Storage	246	
6. COST ESTIMATES				
ITEM	AMOUNT	QUANTITY	UNIT	BASE
<b>Primary Facilities</b>				246
Storage Igloos w/Deck	57	1,670	147.30	246
Subtotal				246
Contingency (10.00%)				25
Total Contract Cost				271
Supervision, Inspection & Overhead (5.50%)				15
Total Request				286
Total Request (Rounded)				286
Installed Equipment - Other Appropriations				
10. Description of Proposed Construction	Construct five single level earth covered Igloos with concrete floor 10 ft. wide x 13 ft. long x 7 ft. 6 inches high with van dock 170 ft. long x 6 ft. wide connecting all five Igloos. Provide driveway for access from existing road. Igloos to be covered with a minimum of 24" of earth. An intrusion detection system must be provided on all five Igloos. This will include providing and installing a minimum 6 pair transmission line routed most feasible route to Security headquarters. Transmission line to be armored fiber optic. Other components will be GFM but will be installed under this project funding. Explosion proof light is required in each igloo and a floodlight on the front of each igloo.			
<u>11. REQUIREMENT:</u>	1,670 SF ADEQUATE: None SUBSTANDARD: 188 SF			
<u>PROJECT:</u>	Storage Igloos sufficient for storage of Category II explosives are required to support testing activities at Test Area BG5.			
<u>REQUIREMENT:</u>	Storage Igloos are required to meet the criteria of AR190-11 and DOD 5100.76-M and AMC-R 385-100. Proper storage facilities are required to store all fuzes, blasting caps, etc as well as the items awaiting testing			
<u>CURRENT SITUATION:</u>	Demolition items are currently housed in two small metal buildings which are inadequate and do not meet the requirements of AR190-11.			
<u>IMPACT IF NOT PROVIDED:</u>	Failure to approve this project will deny this			

1. COMPONENT	2. DATE								
FY 1990 MILITARY CONSTRUCTION PROJECT DATA									
ARMY-PBS	10/1/89								
3. INSTRUCTION AND LOCATION	4. PROJECT NUMBER								
Louisiana Army Ammunition Plant, Louisiana	5. PROJECT NUMBER								
Storage Buildings	18870								
11. REQUIREMENT Continued									
IMPACT IF NOT PROVIDED (Continued)									
facility appropriate storage to meet requirements of Security Regulation AR190-11, Ch. 4 and DOD 5100.76-M, Ch. 4 & 5. It will force inefficiencies by holding items for testing in the current production facility thereby reducing space for production use. It will require extra transportation and load/unload of items which cannot be accepted and unloaded at the test area. This causes additional exposure of personnel to explosives due to the additional handling. There is current no IDS.									
ADDITIONAL: Exemption to requirements of an Economic Analysis is requested in accordance with AR 11-28, Para. 1-3d(3). This project is required to comply with construction criteria of AR190-11, ch. 4 and DOD 5100.76-M, Ch 4 & 5.									
12. SUPPLEMENTAL DATA									
A. Estimated Design Data.									
(1) Status:									
(a) Design Start Date ..... Aug 87									
(b) Percent Complete As Of 01 January 89 (BDGT YR) ..... 100									
(c) Percent Complete As Of 01 October 89 (PROG YR) ..... 100									
(d) Design Complete Date ..... Dec 88									
(2) Basis:									
(a) Standard or Definitive Design - Yes _____ No _____									
(b) Where Design Was Most Recently Used _____									
(3) Total Cost 'c' = (a)+(b) or (d)+(e) \$111									
(a) Production of Plans and Specifications _____									
(b) All Other Design Costs ..... _____									
(c) Total Cost ..... _____									
(d) Contract ..... _____									
(e) In-house ..... _____									
(4) Construction Start ..... Apr 90									
month & year									
B. Equipment associated with this project which will be provided from other appropriations:									
<table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td>None</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)	None			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)						
None									

1. COMPONENT	2. DATE			
FY 1990 MILITARY CONSTRUCTION PROJECT DATA				
ARMY-PBS	JAN 13			
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
Lame Lake Army Administration Plant Missouri Replace Storage Building				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. COST BASIS
70011A	006	16025	100000	100000
10. COST ESTIMATES				
ITEM	U.M.	QUANTITY	UNIT COST	COST BASIS
<u>Primary Facility</u>				169
Primary Facility	LSI	-	-	169
<u>Supporting Facilities</u>				137
Electric Service	LSI	-	-	51
Site Improvement	LSI	-	-	35
HVAC	LSI	-	-	51
<u>Subtotal</u>				506
Contingency (10.00%)				51
<u>Total Contract Cost</u>				557
Supervision, Inspection & Overhead (5.50%)				31
<u>Total Request</u>				588
<u>Total Request (Rounded)</u>				590
Installed Equipment - Other Appropriations				0
11. Description of Proposed Construction	Construct two (2) single story propellant storage buildings, approximately 51' x 25' x 11' with flat roofs, on existing or new foundations. The designer shall determine the adequacy of the existing foundations and floor slab by structural analysis, based upon the functional requirements and floor loads of storage stacks or forklifts, see note. If it is determined that new foundations/floor slabs are needed, the construction will include demolition of the existing foundations/floor slabs. Electricity and steam shall be provided to the buildings from the most economically feasible existing location. A properly sized heating system shall be installed for proper interior environment control and compressed air installed for pneumatic steam controls. Lighting and lightning protection should be provided and installed. The building truck docks shall be constructed to allow for angled truck docking and unloading.			
NOTE: Concrete strength test should be performed if the design concrete strength is not known, if it is suspected that the design concrete strength was not met during construction or damage has occurred due to fire/explosion.				
11. REQUIREMENT: 33,150 SF ADEQUATE: 30,600 SF SUBSTANDARD: None				
PROJECT: Replace two (2) propellant powder storage buildings that were destroyed by fire.				

1. COMPONENT	2. DATE
ARMY-PBS	JAN 89
3. INSTALLATION AND LOCATION	
4. PROJECT TITLE	
Replace Storage Building	16225
5. REQUIREMENTS: Continued	
REQUIREMENT: This project is required to provide replacement buildings for buildings destroyed by fire. The storage buildings need to be replaced to provide proper and adequate storage space for propellant powder.	
CURRENT SITUATION: At the present time, trailers are used for storage when adequate space is not available. Powder lots are also being separated so powder can be stored where there is available space.	
IMPACT IF NOT PROVIDED: Continue to take ad hoc measures to compensate for insufficient storage space for propellant powder. Continue to store powder in trailers when necessary and pay demurrage charges on trailers. Proper security measures are not controllable with the use of trailers.	
ADDITIONAL: This project is currently programmed in PSR Project 3905332 as Subproject 17.	
Estimated costs are in FY90 inflated \$000	
A 10 percent contingency factor is currently being used in accordance with project preparation guidance.	
Specific Mobilization Requirement: This project is needed to provide sufficient propellant powder storage facilities for mobilization production schedules.	
A Certificate of Savings in maintenance and operation is not required.	
DEH:kah	
Form No. 26225	
6. SUPPLEMENTAL DATA:	
A. Estimated Design Data.	
(1) Status	
(a) Design Start Date	Jan 89
(b) Percent Complete As Of 01 January 89 (BDGT YR)	93
(c) Percent Complete As Of 01 October 89 (PROG YR)	100
(d) Design Complete Date	Feb 89
(2) Basis:	
(a) Standard or Definitive Design - Yes	— No —
(b) Where Design Was Most Recently Used	_____
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)	
(a) Production of Plans and Specifications	_____
(b) All Other Design Costs	_____
(c) Total Cost	_____
(d) Contract	_____
(e) In-house	_____
(4) Construction Start _____ Jun 90	
Month & year	

1. COMPONENT ARMY-PBS	2. DATE JAN 89	
3. INSTRUMENTATION AND LOCATION Lake City Army Ammunition Plant, Missouri		
4. PROJECT TITLE Replace Storage Building	5. PROJECT NUMBER 15225	
6. SUPPLEMENTAL DATA (Continued) b. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation None	Fiscal Year Appropriated Or Requested Cost \$0.00

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
ARMY-PBS				JAN 19
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
Lake City Army Ammunition Plant, Missouri. Alternate Electrical Power for Waste				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (100)	
		37410	215	
9. COST ESTIMATES				
ITEM	Q/M	QUANTITY	UNIT COST	1000
Primary Facility				215
Emergency Generators	15	-	-	215
Subtotal				215
Contingency (5.00%)				11
Total Contract Cost				226
Supervision, Inspection & Overhead (5.50%)				12
Total Request				238
Total Request (Rounded)				240
Installed Equipment - Other Appropriations				
10. Description of Proposed Construction	Installation of emergency motor generator sets (estimate 10 required) sized from 10 KV to 80 KV to provide secondary power for eleven (11) waste pumping stations. Each generator unit to be equipped with automatic starter, transfer switch, weathertight enclosure, fuel tank, block heater, battery and charger, ammeter and hour meter. Installation to include construction of suitable mounting pads, the replacement and rerouting of incoming power feeder to each generator and to point of use. Each generator to be provided with visible and audible alarm when emergency power is in use.			
NOTE: KV is abbreviation for Kilovolt-Amperes (KVA)				
11. REQUIREMENT:	820 KV ADEQUATE: None SUBSTANDARD: 1,100 KV			
PROJECT:	Installation of ten (10) emergency motor-generator units to power the eleven (11) existing waste pumping stations in the event of primary power failure to any or all of those locations.			
REQUIREMENT:	This project is needed to comply with Part I, Section 3, Item 7 of the Standard Conditions for National Pollutant Discharge Elimination System (NPDES) Permits, the Missouri Department of Natural Resources, Missouri Clean Water Commission, October 1, 1980, which requires either:			
a.	Provision of an alternate power source sufficient to operate the			

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
ARMY-PBS	JAN 89	
2. INSTALLATION AND LOCATION		
Lake City Army Ammunition Plant, Missouri		
3. PROJECT TITLE		PROJECT NUMBER
Alternate Electric Power for Waste		37410
4. REQUIREMENT: Continued		
REQUIREMENT: Continued		
waste water control facilities, or		
b. Halt or otherwise control production and all discharges upon loss of primary power to waste water control facilities.		
CURRENT SITUATION: If localized power outages occur at pumping stations, the production operations discharging waste to those stations must be shut down to prevent a potential overflow and spill of untreated sanitary or industrial waste. The current emergency generating capability consists of a central 700 KV system and one portable 400 KV unit. The central system is dedicated to specific uses which do include the sewage treatment plants but not the pumping stations. The central system is operational only during total plant power outages and not useful for localized failures. The portable generator unit could be used to respond to specific locations, but the time required to recognize the power failure, to transport the generator to the site, to make the required connections and get the pump station back in operation could be too long to prevent a spill or a production shutdown.		
IMPACT IF NOT PROVIDED: If this project is not implemented, Lake City Army Ammunition Plant will continue to operate under marginal compliance with the Government regulations covering the control of pollutant discharges. Without reliable alternate electrical power available to the waste pumping stations, the Plant will remain in jeopardy of shutdown as being the only means of preventing sanitary or industrial waste water spills.		
ADDITIONAL: Justification for Exception of Economic Analysis is applicable for this item under provisions of paragraph 1-3d (3) AR 11-28, required by statute, regulation or directive.		
Specific Mobilization Requirement: This project is needed to support the mobilization production schedule which would otherwise be in jeopardy of shutdown as a means of preventing pollutant discharges.		
The Mobilization Plan includes this as IPP LCN No. 0042AE and AMCCOM Project Identification No. 3LC033. This project is currently programmed as Mod. Project No. 5902752.		
Estimated costs are in FY90 inflated \$000 and were provided by the Program Manager as the Corps of Engineers estimate for this project.		
FORM No. 27410		
RLE:kah		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date ..... May 88		
(b) Percent Complete As Of 01 January 89 (BDGT YR) ..... 100		
(c) Percent Complete As Of 01 October 89 (PROG YR) ..... 100		
(d) Design Complete Date ..... Nov 88		



1. COMPONENT		2. DATE	
ARMY-PBS		FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Kane City Army Ammunition Plant, Missouri		Fire Detection and Deluge System	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
		177-47	1,337
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
Primary Facility			1,337
Fire Detect/Deluge Sys.	LS	-	1,337
Subtotal			1,337
Contingency (5.00%)			67
Total Contract Cost			1,404
Supervision, Inspection & Overhead (5.50%)			77
Total Request			1,481
Total Request (Rounded)			1,500
Installed Equipment - Other Appropriations			:
10. Description of Proposed Construction		Installation of high-speed ultraviolet UV fire detection and deluge systems in the following locations where propellant powder, pyrotechnic mixes, or high explosives are handled manually or present significant fire hazards to the operators.	
Building	Area	Material Handled	
1	Loading	Ball/Tracer Propellants	
2	Loading Mezzanine	Ball/Tracer Propellants	
2	Loading	Ball/Tracer Propellants	
2	Pulldown	Ball/Tracer Propellants	
3	Loading Mezzanine	Ball/Tracer Propellants	
3	Loading	Ball/Tracer Propellants	
3	Pulldown	Ball/Tracer Propellants	
4	Loading Mezzanine	Ball/Tracer Propellants	
4	Loading	Ball/Tracer Propellants	
23A	Pouring Dispensing	Blank Propellants	
23B	Pelleting	RDX High Explosive	
23C	Pelleting	RDX High Explosive	
65	Loading Mezzanine	20mm Propellants	
65	Loading	20mm Propellants	

1. COMPONENT	2. DATE
ARMY-PBS	JAN 88
3. INSTALLATION AND LOCATION	
Lake City Army Ammunition Plant, Missouri	
4. PROJECT NAME	5. PROJECT NUMBER
Fire Detection and Deluge System	
6. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)	
65	Projectile Charging Pyrotechnics & RDX
67	Pulldown 20mm Propellants
Installation to include ultraviolet (UV) fire detection units, deluge nozzels, alarm communications, wiring, controls and piping to provide complete serviceable systems.	
7. REQUIREMENT: 5,000 LF ADEQUATE: None SUBSTANDARD: None	
PROJECT: Installation of high speed ultraviolet (UV) fire detection and deluge systems to reduce the hazard to personnel and the facility in locations where propellant powders, pyrotechnics and high explosives are handled manually or present significant fire hazards to the operators	
REQUIREMENT: All of the fire protection deficiencies to be addressed by this project have been identified or are similar to those identified by the Department of Defense Explosive Safety Board after 1982 and 1983 inspections, the United States Army Armament, Munitions and Chemical Command (AMC/CCM) Safety Office during a 1984 survey, and by various safety consultants during 1985, 1986, and 1987. Reports from these inspections recommended that high speed fire detection and deluge systems be installed in the specifically identified locations to mitigate the hazard to personnel and property due to possible ignition of energetic materials being handled. Army Material Command Regulation (AMC-R) 385-100, paragraph 12-25, requires that deluge systems be provided in addition to sprinklers for protection of operating personnel in high hazard occupancies.	
CURRENT SITUATION: All locations specified in the Description of Proposed Construction section are equipped with standard heat activated sprinkler systems at the ceiling. Many of the sites also have similar sprinkler heads located directly above points of operation where energetic materials are poured or otherwise handled. Such sprinkler systems are activated by a fusible link in a matter of seconds compared to the reaction time of only milliseconds for UV detection and deluge systems recommended.	
IMPACT IF NOT PROVIDED: If this project is not implemented, the operations identified will remain at a higher risk to personnel and property due to the fire hazards associated with handling of propellants, pyrotechnics and high explosives. Continued operations under these circumstances will be contrary to the recommendations cited in the Requirement section and to AMC-R 385-100 directives.	
ADDITIONAL: Economic Justification for this project is not necessary. Although preservation of property is a positive economic consequence of this project, the main objective is the protection of operating personnel from possible fire hazards and the satisfaction of safety requirements set forth in AMC-R 385-100 and recommendations made by the various safety boards and consultants cited in the Requirement section.	
Specific Mobilization Requirement: This project is needed to protect the mobilization capability of the existing facility and equipment from fire damage.	

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
ARMY-PBS	DATE	JAN 19
2. INSTALLATION AND LOCATION		
Lake City Army Ammunition Plant, Missouri		
3. PROJECT TITLE	Project Number	
Fire Detection and Deluge System		
4. REQUIREMENT (Continued)		
ADDITIONAL (Continued)		
<p>The Mobilization Plan includes the Buildings 3 and 20A elements of this project as deficiencies in industrial preparedness and have been identified by Local Control Numbers 0144EM and 0138EM and AMCCOM Project Identification Numbers 7LC026 and 7LC022 respectively. This project is currently programmed as MOD Project 5902700-28.</p> <p>Estimated costs are in FY90 inflated \$000 and were provided by the Program Manager as the Corps of Engineers estimate for this project.</p> <p>27747:RLE:kah</p>		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	May 86	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 89 (PROG YR)	100	
(d) Design Complete Date	Nov 86	
(2) Basis:		
(a) Standard or Definitive Design - Yes	No	
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)+(b) or (d)+(e):	\$000	
(a) Production of Plans and Specifications		
(b) All Other Design Costs		
(c) Total Cost		
(d) Contract		
(e) In-house		
(4) Construction Start: Apr 90		
month & year		
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested
None		Cost (\$000)

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PES		JULY 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Holston Army Ammunition Plant, Tennessee		Electrical Safety Connections	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT NAME
106	01581	10000	10000
9. COST ESTIMATES			
ITEM	UOM	QUANTITY	UNIT COST
<u>Primary Facility</u> New Construction	LS	-	1,594
<u>Supporting Facilities</u> Paving, Walks, Curbs & Gutters	LS	-	1,594
<b>Subtotal</b>			3,188
Contingency (5.00%)			169
<b>Total Contract Cost</b>			<b>3,357</b>
Supervision, Inspection & Overhead (5.50%)			96
<b>Total Request</b>			<b>3,453</b>
<b>Total Request (Rounded)</b>			<b>3,450</b>
Installed Equipment - Other Appropriations			194
10. Description of Proposed Construction		Correct safety deficiencies for electrical system supplying explosives production buildings and support facilities to include: upgrading the existing lightning protection system by replacing grounding systems, masts and poles. Replacement of the poles is based on re-use of approximately half of the existing lightning poles; modifying the existing electrical services to provide underground building connections and installing secondary lightning arrestors; and correcting existing pole spacings for electrical distribution and area lighting systems.	
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: This project will correct electrical distribution deficiencies at Holston related to the spacing between distribution line poles, provide underground electrical service to explosives operating buildings, and upgrade the lightning protection system for the explosives plant and support facilities to conform to the latest requirements of AMCR 385-100 Safety Manual dated August 1985. The project will benefit the present and future modernization, reactivation, and expansion projects for Holston since correction of these problems is required during these efforts. Efficiency will be gained by designing and installing the new systems under the same project rather than piecemeal under separate projects.			

COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
ARMY-PBS	DATE 02/01/90	
INSTALLATION AND LOCATION		
Holston Army Ammunition Plant, Tennessee		
PROJECT TITLE	Project Under	
Electrical Safety Corrections		11581
REQUIREMENT: (Continued)		
REQUIREMENT: Project 5872700 will correct electrical distribution and lightning protection deficiencies at Holston in accordance with AMCR 385-100 for all of the related projects listed below:		
Project	Title	
5852054	Mod Line 3, Comp C-4	
5862447	Modify/Convert/Reactivate	
5872439C	Backup Power	
5882439D	Improved Dryer, Bldg N-3	
5893000A	Mod Line 10, Comp A-5	
5892055	Mod Loading Dock	
5922439F	Ammonia Neutralization	
5922999	HMX/PBX Improvements	
5933000B	Mod Line 9, Comp A-3/A-4	
Project 5873000A is programmed to correct lightning protection but not the other electrical distribution deficiencies.		
<u>CURRENT SITUATION:</u> The lightning protection, pole spacing, and underground electrical service requirements of the Army Safety Manual are presently in violation at Holston. During modernization, reactivation, or reconfiguration of existing facilities, the Army Safety Community has insisted that the plant be brought into compliance with the "latest" regulations. This has presented some difficulty in the most of the presently active project designs were initiated prior to the adoption of the new regulations. During this period the subject deficiencies were not addressed. In addition, cost constraints will prevent cost growth on these current projects and the necessary project funds will not be available to correct the deficiencies. Start-up of the effected facilities will not be allowed by Safety until the corrections are made which could affect Holston's ability to meet projected FYDP, stockpiling, mobilization, or the set 1994 Modernization levels to which Holston is modernizing.		
<u>IMPACT IF NOT PROVIDED:</u> Facilities at Holston which are being modernized, reactivated or converted (reconfigured) for production of items in the current FYDP cannot be activated without correction of these deficiencies as per Army		

1. COMPONENT		DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA				
ARMY-PBS		JAN 88		
2. INSTALLATION AND LOCATION				
Holston Army Ammunition Plant, Tennessee				
3. PROJECT TITLE		PROJECT NUMBER		
Electrical Safety Connections		01601		
4. GOVERNMENT (Continued)				
IMPACT IF NOT PROVIDED (Continued)				
Safety Production shortfalls of RDX, HMX, and Compositions/PBX's using these items may occur if this project is not accomplished.				
ADDITIONAL: A Record of Environmental Consideration dated 8 April 1987 has been prepared. See SRP4.				
The appropriate safety submissions will be prepared and submitted.				
12. SUPPLEMENTAL DATA:				
A. Estimated Design Data:				
(1) Status:				
(a) Design Start Date		FEB 87		
(b) Percent Complete As Of 01 January 89 PROG WR		100		
(c) Percent Complete As Of 01 October 89 PROG WR		100		
(d) Design Complete Date		NOV 87		
(2) Basis:				
(a) Standard or Definitive Design - Yes		No <input checked="" type="checkbox"/>		
(b) Where Design Was Most Recently Used		NA		
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)				
(a) Production of Plans and Specifications		140		
(b) All Other Design Costs		140		
(c) Total Cost		280		
(d) Contract		140		
(e) In-house		140		
(4) Construction Start (MM DD) month & year				
B. Equipment associated with this project which will be provided from other appropriations:				
Equipment Nomenclature		Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None				

1. COMPONENT ARMY-PBS	2. DATE JAN 89		
3. INSTALLATION AND LOCATION Holston Army Ammunition Plant, Tennessee	4. PROJECT TITLE Construct Firebreaks		
5. PROGRAM ELEMENT 106	6. CATEGORIES CODE 10000	7. PROJECT NUMBER 10000	8. PROJECT COST \$500
9. COST ESTIMATES			
ITEM Primary Facility Construct Firebreaks	QTY 15	QUANTITY 000	UNIT COST \$33.33
Subtotal			530
Contingency (5.00%)			27
Total Contract Cost			557
Supervision, Inspection & Overhead (5.50%)			31
Total Request			588
Total Request (Rounded)			590
Installed Equipment - Other Appropriations			12
10. Description of Proposed Construction Construct firebreaks in the high and low wheeling ramps of Production Lines 3 through 7.			
11. REQUIREMENT: 5 EA ADEQUATE: None SUBSTANDARD: 5 EA PROJECT: Construct firebreaks in the high and low wheeling ramps of Production Lines 3, 4, 5, 6, and 7. High ramps: replace 20-foot sections of wood deck and supporting wood members with prestressed concrete slabs supported by steel columns. Wood and metal roof structures will be replaced by all metal structures. Low ramps: replace 20-foot sections of wood and metal roof structures with metal structure. REQUIREMENT: Paragraph 5-28 of AMCR 385-100 requires firebreaks in the locations planned. CURRENT SITUATION: The existing firebreaks in wheeling ramps are not constructed from completely noncombustible materials and are, therefore, of limited fire-stopping effectiveness. The existing firebreaks are not in accordance with firebreak policy provided by AMSMU-SS-SD, 9 December 1969, 2nd endorsement to SMUPA-SE letter dated 15 December 1969. IMPACT IF NOT PROVIDED: If this project is not approved, substandard safety and working conditions will remain. Since the existing structures are not in compliance with Paragraph 5-28 of AMCR 385-100, adverse production schedule			

1. COMPONENT	2. DATE		
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION			
Holston Army Ammunition Plant, Tennessee			
4. PROJECT TITLE	5. PROJECT NUMBER		
Construct Firebreaks	10001		
6. REQUIREMENT: Continued			
IMPACT IF NOT PROVIDED: Continued			
Impacts will occur unless a waiver can be obtained.			
ADDITIONAL: An economic analysis is not necessary for this project. All potential alternatives were examined in the development of this project and none were found to be feasible.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	NOV 88		
(b) Percent Complete As of 31 January 89 BDGT YR	100		
(c) Percent Complete As of 31 October 89 PROG YR	100		
(d) Design Complete Date	NOV 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No <input checked="" type="checkbox"/>		
(b) Where Design Was Most Recently Used	HOLSTON AAF		
(3) Total Cost (c) = (a)+(b)+(d)+(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	NOV 88		
	month & year		
5. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
	None		

1. COMPONENT	2. LOCATE		
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
Holston Army Ammunition Plant, Tennessee Gas Pipe Line			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT NAME
324	37075	100000	326
9. COST ESTIMATES			
ITEM	U.M.	QUANTITY	UNIT
Primary Facility Corrosion Protection	LS	-	326
Subtotal			326
Contingency (5.00%)			16
Total Contract Cost			342
Supervision, Inspection & Overhead (5.50%)			19
Total Request			361
Total Request (Rounded)			360
Installed Equipment - Other Appropriations			3
10. Description of Proposed Construction	Provide a corrosion protection system for the natural gas lines.		
11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: 1 EA			
PROJECT: Install a cathodic corrosion protection system for the 12-inch natural gas main that extends from the East Tennessee Natural Gas meter station on Long Island to Area B Steam Plant with laterals to the Administration Area and refuse incinerators. This job includes:			
(1) Testing of all dielectric fittings in the area to be protected			
(2) Verification of the electrical integrity of the pipeline by locator signal tracing or equivalent method			
(3) Location and elimination of all contacts with other metallic piping systems			
(4) Installation of test stations every 500 feet along the pipeline.			
REQUIREMENT: A Corrosion Reduction Survey Report No. E-8068, December 1980, pointed out that the gas line into the plant passes near several residential areas and has been unprotected cathodically for 14 years. Department of Transportation regulations require operators of all natural gas pipeline systems to provide cathodic protection.			
CURRENT SITUATION: There is no corrosion protection of the natural gas line			

1. COMPONENT ARMY-PBS	2. DATE JAN 89		
3. INSTALLATION AND LOCATION Holston Army Ammunition Plant Tennessee			
4. PROJECT TITLE Gas Pipe Line	5. PROJECT NUMBER 00000		
6. REQUIREMENTS: (Continued)			
CURRENT SITUATION: (Continued)			
from the East Tennessee Natural Gas meter station on Long Island to the Area 3 Steam Plant. The earth at the pipeline is moderately corrosive.			
IMPACT IF NOT PROVIDED: If this project is not approved, a maintenance deficiency and potential safety hazard will remain.			
ADDITIONAL: An economic analysis is not necessary for this project. All potential alternatives were examined in the development of this project and none were found to be feasible.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	NOV 87		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	NOV 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No <input checked="" type="checkbox"/>		
(b) Where Design Was Most Recently Used	HOLSTON AAP		
(3) Total Cost (c) = (a)-(b) or (d)-(e):			
(a) Production of Plans and Specifications	50000		
(b) All Other Design Costs	_____		
(c) Total Cost	_____		
(d) Contract	_____		
(e) In-house	_____		
(4) Construction Start			
JUN 90 month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation None	Fiscal Year Appropriated Or Requested	Cost (\$000)

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
3. PROGRAM ELEMENT	4. PROJECT TITLE		
4. INSTALLATION AND LOCATION	5. PROJECT COST		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. COST ESTIMATES
Primary Facility	LS	10. QUANTITY	11. COST
Earth Covered Igloo - Line 3	-		355
Subtotal			355
Contingency (5.00%)			18
Total Contract Cost			373
Supervision, Inspection & Overhead (5.50%)			21
Total Request			394
Total Request (Rounded)			390
Installed Equipment - Other Appropriations			0
12. Description of Proposed Construction			
The primary facility has permanent reinforced concrete floor and end walls and either corrugated metal or concrete arched top. This work is new construction, site adapted from two similar facilities on this installation. Structure will be used for storage of explosive components. The project will include required utilities services and an enclosed personnel ramp and truck dock. Not sited in a flood plain. No old facilities will be destroyed.			
13. REQUIREMENT: 750 sf ADEQUATE: None SUBSTANDARD: None			
PROJECT: Construction of a 750 sq. ft. earth covered storage magazine.			
REQUIREMENT: Project is required to reduce the exposure of production personnel to explosive hazards and enhance production operations.			
CURRENT SITUATION: Presently bulk explosives are delivered directly to building 3-2 by truck. Trailers are spotted at this building and the explosives are removed as needed in the production operation. Personnel working in building 3-2 are exposed to approximately 4000 pounds of high explosives as the trailers are parked adjacent to the building. With the construction of this magazine, trailers could be located from building 3-2 based on barricaded intraline distance and the bulk explosives delivered to 3-2 along the new ramp.			

1. COMPONENT ARMY-PBS	2. DATE JAN 89		
3. INSTALLATION AND LOCATION Milan Army Ammunition Plant, Tennessee			
4. PROJECT TITLE Earth lowered Icico - Line 3	5. PROJECT NUMBER 13373		
6. REQUIREMENT: (Continued)			
IMPACT IF NOT PROVIDED: Failure to approve this project will result in personnel continuing to be exposed to hazards that this project would eliminate.			
7. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Feb 88		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	Oct 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 90		
	Month & Year		
B. Equipment associated with this project which will be provided from other appropriations:			
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated Or Requested</u>	<u>Cost (\$000)</u>
	None		

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
Miller Army Ammunition Plant, Tennessee	Earth Covered Igloo - Line A		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (1000)
		420 03896	349
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
Primary Facility Earth Covered Igloo - Line A	LS	-	349
Subtotal			349
Contingency (5.00%)			17
Total Contract Cost			366
Supervision, Inspection & Overhead (5.50%)			20
Total Request			386
Total Request (Rounded)			390
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction			
The primary facility has permanent reinforced concrete floor and end walls and either corrugated metal or concrete arched top. This work is new construction, site adapted from standard Corps of Engineers drawings. Structure will be used for storage of explosive components. This project will include required utilities services and an enclosed personnel ramp. Not sited in a flood plain. No old facilities will be destroyed.			
11. REQUIREMENT: 1,500 SF ADEQUATE: None SUBSTANDARD: None			
PROJECT: Construction of a 1500 sq. ft. earth covered storage magazine.			
<u>REQUIREMENT:</u> Project is required to reduce the exposure of production personnel to explosive hazards and prevent production bottlenecks.			
<u>CURRENT SITUATION:</u> Presently a backlog of grenades is maintained to allow assembly buildings to operate in the event of press shut-down for a short period. Railcars are now being used to hold this queue of grenades. Each railcar contains approximately 51,000 grenades. Sometimes as many as four railcars are required to hold this queue.			
<u>IMPACT IF NOT PROVIDED:</u> Failure to approve this project will result in personnel continuing to be exposed to hazards that this project would			

1. COMPONENT	2. DATE										
FY 1990 MILITARY CONSTRUCTION PROJECT DATA											
ARMY-PBS	JAN 89										
3. INSTALLATION AND LOCATION											
Miller Army Ammunition Plant, Tennessee											
4. PROJECT TITLE	PROJECT NUMBER										
Barton Covered Bridge - Line 4	16896										
11. REQUIREMENT: <u>Continued</u>											
IMPACT OF NOT PROVIDED: <u>Continued</u>											
eliminate.											
12. SUPPLEMENTAL DATA:											
A. Estimated Design Data:											
(1) Status:											
(a) Design Start Date	Feb 88										
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100										
(c) Percent Complete As Of 01 October 89 (PROG YR)	100										
(d) Design Complete Date	Oct 88										
(2) Basis:											
(a) Standard or Definitive Design - Yes	No										
(b) Where Design Was Most Recently Used											
(3) Total Cost (c) = (a)-(b) or (d)-(e): (5000)											
(a) Production of Plans and Specifications											
(b) All Other Design Costs											
(c) Total Cost											
(d) Contract											
(e) In-house											
(4) Construction Start: Apr 90											
Month & year											
3. Equipment associated with this project which will be provided from other appropriations:											
<table border="1"> <thead> <tr> <th rowspan="2">Equipment Nomenclature</th> <th rowspan="2">Procuring Appropriation</th> <th colspan="2">Fiscal Year</th> </tr> <tr> <th>Appropriated</th> <th>Cost Or Requested</th> </tr> </thead> <tbody> <tr> <td colspan="2">None</td> <td colspan="2">(5000)</td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year		Appropriated	Cost Or Requested	None		(5000)	
Equipment Nomenclature	Procuring Appropriation			Fiscal Year							
		Appropriated	Cost Or Requested								
None		(5000)									

I. COMPONENT		II. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 90	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Longview Army Ammunition Plant, Texas		Fire Alarm Reporting System	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT ID#
130	28713	000000	1000
9. COST ESTIMATES			
ITEM	QTY	UNIT COST	TOTAL COST
Primary Facility Fire Alarm Reporting System	13	-	309
Subtotal			309
Contingency (5.00%)			40
Total Contract Cost			349
Supervision, Inspection & Overhead (5.50%)			47
Total Request			396
Total Request (Rounded)			396
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction			
Provide radio fire alarm reporting system to separately indicate an alarm at any existing fire alarm box location and sprinkler/deluge riser. Criteria to be followed is: (1) All boxes (transmitters) on utility poles are to be eliminated. No aerial interconnecting cabling between initiating device(s) and associated reporting device (radio alarm transmitter) is to be required. (2) Where practical, transmitters are to be installed on structure exteriors to allow public access (alarm initiating provision) to satisfy the need for street box type reporting locations. (3) Where practical, alarm transmitters are to be located and configured to serve auxiliary devices in more than one location to minimize the number transmitters required. Reporting for approximately one hundred thirty risers and ten manual stations is required. NOTE: The system shall be expandable for future requirements.			
11. REQUIREMENT: 130 BX ADEQUATE: None SUBSTANDARD: 130 SX			
PROJECT: A highly reliable, easily interpreted fire alarm reporting system is needed to assure minimum response time by fire fighting personnel and equipment.			
REQUIREMENT: Provide replacement of existing, antiquated World War II era			

1. COMPONENT	2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
ARMY-PBC	JAN 23	
3. INSTALLATION AND LOCATION		
Longhorn Army Ammunition Plant, Texas		
4. PROJECT TITLE	5. PROJECT NUMBER	
Fire Alarm Reporting System 13713		
6. REQUIREMENTS (Continued)		
REQUIREMENTS (Continued)		
hard wired series fire alarm reporting system with modern, reliable, state-of-the-art radio type fire alarm reporting system. Radio systems are less susceptible to lightning damage, which results in outages, false alarms and repair expense than the existing hard wired or telephone multiplexing alarm reporting systems. Provisions of the requested system would bring all areas of the plant into compliance with current, existing NFPA standards and regulations related to fire alarm reporting systems.		
<u>CURRENT SITUATION:</u> The existing Longhorn AAP fire alarm is a Type 3, Form 4 system. It was manufactured by the Gamewell Company and is an aerial wire telegraph system which allows manual and automatic initiation of alarm signals. A punched tape and register are encoded to denote the alarm box number. Each alarm box is assigned a specific number. Bells and registers are also located at Security Headquarters and COR Safety Offices.		
Initial installation of the telegraph system was made in 1942 for the Plant 1 TNT Area. Areas have been added to the system as the physical size of the plant increased to include pyrotechnic and rocket motor production areas (Plant 2 and 3). The central fire station cabinet was replaced in 1954 and other modifications were made in the mid-sixties. The system has been operating in its present configuration for twenty years.		
The alarm system utilizes overhead transmission lines which are very susceptible to interception of lightning. Lightning damage to alarm box mechanisms and fuses within the wiring system is common. The transmission lines are also becoming deteriorated and in need of replacement.		
Replacement of the telegraph system with a multiplex system, which used plant underground telephone cables, was programmed for FY79. The job was awarded to a small business minority enterprise which declared bankruptcy prior to work completion. Subsequent attempts by plant and other subcontract personnel to complete the work and provide a workable system proved futile. Nonstandard devices had been used and the transmitting units proved to be highly unreliable and susceptible to lightning. That system has been abandoned in place.		
The existing Gamewell system is becoming aged and availability of replacement parts into the 1990's should not be assumed. Address locations are also becoming limited as new facilities and zones of deluge fire protection are added. Rapid recognition of alarm location, even by trained personnel, is becoming more difficult. The potential exists that an alarm will not be received, false alarms will be received, and that fast, accurate determination of alarm location cannot be made.		
<u>IMPACT IF NOT PROVIDED:</u> The plant fire alarm system will continue to deteriorate with age. Fire alarm data will not be as accurate, timely or reliable as it ought to be. Probability of major property loss, due to lack		

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE								
ARMY-PBS			JULY 1990								
3. INSTALLATION AND LOCATION											
Marine Corps Air Ground Combat Center, Twentynine Palms, California			4. PROJECT NUMBER								
Project Title			1391C								
Code Alert Reporting System											
5. REQUIREMENT: (Continued)											
IMPACT IF NOT PROVIDED: (Continued)											
of, or inadequate notification will increase. The ability of the Plant Fire Protection force to perform its assigned mission would be degraded.											
ADDITIONAL: A Format 3 economic analysis has been prepared for this project and is included in this document.											
The status quo is not an acceptable alternative. It does not provide the degree of reliability, protection, and potential cost avoidance deemed necessary.											
12. SUPPLEMENTAL DATA:											
A. Estimated Design Data:											
(1) Status:											
(a) Design Start Date ..... Jul 86											
(b) Percent Complete As Of 01 January 89 (BDGT YR) ..... 100											
(c) Percent Complete As Of 01 October 89 (PROG YR) ..... 100											
(d) Design Complete Date ..... Nov 88											
(2) Basis:											
(a) Standard or Definitive Design - Yes _____ No _____											
(b) Where Design Was Most Recently Used _____											
(3) Total Cost (c) = (a)-(b) or (d)-(e) \$000											
(a) Production of Plans and Specifications _____											
(b) All Other Design Costs _____											
(c) Total Cost ..... _____											
(d) Contract ..... _____											
(e) In-house ..... _____											
(4) Construction Start ..... Apr 90											
month & year											
B. Equipment associated with this project which will be provided from other appropriations:											
<table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td></td> <td>None</td> <td></td> <td></td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)		None				
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)								
	None										

1. COMPONENT		2. DATE	
ARMY-PBS		FEB 1990	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Longhorn Army Ammunition Plant, Texas		Security Fencing and Gates	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT NAME
170	13724	13724	13724
9. COST ESTIMATES			
ITEM	U.M.	QUANTITY	UNIT COST
Primary Facility			
Physical Barrier FE-1 Fence	LS	-	210
Subtotal			210
Contingency (5.00%)			11
Total Contract Cost			221
Supervision, Inspection & Overhead (5.50%)			12
Total Request			233
Total Request (Rounded)			233
Installed Equipment - Other Appropriations			
10. Description of Proposed Construction		Provide replacement of existing barbed wire perimeter fence on eastern, northern, and western boundaries and river pump station access area of Longhorn Army Ammunition Plant with new fence of similar construction.	
11. REQUIREMENT: 85,100 LF ADEQUATE: None SUBSTANDARD: 85,100 LF			
PROJECT: Provide replacement of dilapidated, inadequate perimeter fencing to meet minimum security requirements for a restricted area (Longhorn Army Ammunition Plant).			
REQUIREMENT: The existing perimeter fence was provided when the installation was built in the early 1940's. The four strand, barbed wire fence has become deteriorated over the years and is practically non-existent in some areas. The wire has rusted and the wooden posts have rotted. The Installation Commander has declared Longhorn Army Ammunition Plant to be a controlled area with restricted and excluded areas within the boundaries. A protective barrier conforming to a type FE-1 fence is required.			
CURRENT SITUATION: An adequately secure boundary does not presently exists. The existing fence does not meet regulatory requirements.			
IMPACT IF NOT PROVIDED: The perimeter fence will continue to deteriorate			

1. COMPONENT	2. DATE		
ARMY-PBS	JAN 83		
3. INSTALLATION AND LOCATION			
Lackland Army Reservation Plant, Texas			
4. PROJECT TITLE	5. PROJECT NUMBER		
Security Fencing and Signs			
6. REQUIREMENT (Continued)			
7. LIMIT IF NOT PROVIDED (Continued)			
with age. An adequate, definable boundary will become more difficult to maintain and restricted areas will not be properly identified.			
ADDITIONAL: This project has been reviewed for environmental impact and it has been determined that this project qualifies for a categorical exclusion. A safety site plan/safety submission is not required for this project.			
12. SUPPLEMENTAL DATA			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	May 86		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	Nov 86		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	APR 90		
	month & year		
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

1. COMPONENT ARMY-BBS	2. DATE JAN 88		
3. INSTALLATION AND LOCATION			
4. PROJECT TITLE REPLACE FIVE BARRICADES			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. REQUEST COST
1006	1006	1006	1,152
9. COST ESTIMATES		10. UNIT COST	11. TOTAL COST
ITEM Primary Facility REPLACE FIVE BARRICADES	U.S.	-	(1,152)
Subtotal			1,152
Contingency (10.00%)			115
Total Contract Cost			1,267
Supervision, Inspection & Overhead (5.50%)			70
Total Request			1,337
Total Request (Rounded)			1,330
Installed Equipment - Other Appropriations			
12. Description of Proposed Construction Replace three multi-story and two single-story, double revetted wooden, earth filled barricades with three multi-story and two single-story barricades. The project must remove and re-install utilities, process piping and ductwork passing through or attached to the barricades. Also, the floors and roofs through the barricade portals are to be replaced. Deteriorated escape chutes and support framing are to be replaced and the surface drainage is to be diverted away from the barricade foundation. Upgrade the electrical lighting and wiring to meet the latest codes. Note: Rather than upgrade the 1940's open wiring and nonconforming electrical at all the facilities at RAAP at one time, it has been previously decided to correct the conditions when major work is performed on individual buildings. New wiring and conduit on barricades corrects the majority of the requirements.		Completely remove and reconstruct barricades for five active propellant operating buildings. Not sited in a flood plain.	
13. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: Replace three multi-story and two single-story, double revetted wooden, earth filled barricades with three multi-story and two single-story barricades. The project must remove and re-install utilities, process piping and ductwork passing through or attached to the barricades. Also, the floors and roofs through the barricade portals are to be replaced. Deteriorated escape chutes and support framing are to be replaced and the surface drainage is to be diverted away from the barricade foundation. Upgrade the electrical lighting and wiring to meet the latest codes. Note: Rather than upgrade the 1940's open wiring and nonconforming electrical at all the facilities at RAAP at one time, it has been previously decided to correct the conditions when major work is performed on individual buildings. New wiring and conduit on barricades corrects the majority of the requirements.			
REQUIREMENT: This project is the eleventh phase of an annual replacement program for the barricades at this plant which were erected in the 1940-41 period. Fifty-four barricades in Phase 1 (FY-80) through Phase VII (FY-86) have been completed. Thirteen barricades are being replaced in FY-87 and 88.			

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA									
ARMY-PBS	1391C									
2. INSTALLATION AND LOCATION										
Ft. Monroe Army Reservation, Virginia		3. PROJECT NUMBER								
PROJECT TITLE		1391C								
Replace Five Barricades		4. PROJECT NUMBER								
5. REQUIREMENT: Continued										
REQUIREMENT: Continued										
Repairs to many of these barricades have become excessive and cannot keep up with the rate of deterioration, and the structural integrity cannot be assured.										
CURRENT SITUATION: 240 barricades are required at this plant to meet current production schedules and for mobilization. A portion of these can be maintained for the next 20 years. The remaining ones must be replaced because of decaying of the major structural components. A replacement program has been started to renew the barricades at these buildings, a few each year, beginning with the ones that are in greatest need of replacement.										
IMPACT IF NOT PROVIDED: Without adequate barricades, RMAP could not continue to operate within existing intraline quantity distances.										
6. SUPPLEMENTAL DATA										
A. Estimated Design Data:										
(1) Status:										
(a) Design Start Date		Aug 88								
(b) Percent Complete As Of 01 January 89 (BDGT YR)		100								
(c) Percent Complete As Of 01 October 89 (PROG YR)		100								
(d) Design Complete Date		Dec 88								
(2) Basis:										
(a) Standard or Definitive Design - Yes		No								
(b) Where Design Was Most Recently Used										
(3) Total Cost (c) = (a)-(b)-(d)-(e): \$000										
(a) Production of Plans and Specifications										
(b) All Other Design Costs										
(c) Total Cost										
(d) Contract										
(e) In-house										
(4) Construction Start Apr 90										
month & year										
B. Equipment associated with this project which will be provided from other appropriations:										
<table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td></td> <td>None</td> <td></td> <td></td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)		None			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)							
	None									

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 93		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
Bafford Army Ammunition Plant, Mississippi Replace Hazardous Waste Surface			
5. PROGRAM ELEMENT	6. CATEGORY 1000	7. PROJECT NUMBER	8. PROJECT COST 1000
		00001	1,397
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	COST
<u>Primary Facility</u>			1,397
CONCRETE TANKS	CT	1,500	296.00
BEKAPLAST LINER	SF	22,400	25.00
ENVROPAK TUBE SETTLERS	SF	4,300	15.00
TUBE SETTLERS - FRAME	EA	4	4,300
TUBE SETTLERS - BAFFLE	EA	4	1,080
See Cost Estimates (Continued)			1,997
<u>Subtotal</u>			1,997
Contingency (10.00%)			200
Total Contract Cost			2,197
Supervision, Inspection & Overhead (5.50%)			121
Total Request			2,318
Total Request (Rounded)			2,318
Installed Equipment - Other Appropriations			
10. Description of Proposed Construction			
1. EXCAVATION AND SITE WORK.			
2. CONSTRUCT A TANK/TANKS WITH CONCRETE WALLS AND CONCRETE FLOORS TO REPLACE AN EQUALIZATION BASIN OF APPROXIMATELY 1 MILLION GALLONS CAPACITY. THIS TANK/TANKS SHOULD PROVIDE EQUALIZATION OF UP TO 12 MILLION GALLONS/DAY OF ACIDIC WASTEWATER AND SETTLE APPROXIMATELY 1,000 POUNDS OF NITROCELLULOSE FINE PER DAY.			
3. LINE THE TANK/TANKS WITH ACID RESISTANT BEKAPLAST SYSTEM.			
4. TANK/TANKS TO BE USED IN CONJUNCTION WITH THE PRETREATMENT FACILITY TO EQUALIZE PH.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: CONSTRUCT A CONCRETE ACID BRICK LINED TANK/TANKS TO REPLACE THE LINED LAGOON AT HAZARDOUS WASTE MANAGEMENT SITE NO. 4. THE TANK/TANKS WILL BE DESIGNED TO SERVE AS AN EQUALIZATION TANK FOR VARIABLE WASTEWATER FLOW AND VARIABLE WASTE ACID CONCENTRATION. THE WASTEWATER THAT FLOWS TO THIS TANK/TANKS INCLUDES 5 TO 12 MILLION GALLONS PER DAY OF PROCESS WASTE FROM THE ACID AND A AND B NITROCELLULOSE AREAS, PLUS LEAKS AND SPILLS OF VARIOUS QUANTITY AND CONCENTRATION FROM THE ACID TANK FARMS. THE PRETREATMENT PLANT WILL REMAIN IN OPERATION TO ASSIST IN TREATING (MAJOR ACID SPILLS). THE EQUALIZATION TANK/S SHOULD BE DESIGNED FOR SETTLING APPROXIMATELY 1,000 POUNDS			

1. COMPONENT	2. DATE		
ARMY-BB	FY 1990 MILITARY CONSTRUCTION PROJECT DATA		
3. INSTALLATION AND LOCATION		7-20-89	
Alderson Army Ammunition Plant, Virginia		4. PROJECT CODE	
5. PROJECT CODE		6. PROJECT CODE	
Replace Acidic Waste Surface		7. COST	
8. COST ESTIMATES (Continued)			
Item	U/M	Quantity	Unit Cost
Primary Facility (Continued)			\$/100
HANDRAILS - 56	LF	1,000	40.00
4' FIBERGLASS GRATING WALKWAYS, E	LF	154	540.00
FILL AND COMPACTION	CY	28,325	1.91
EXCAVATION - BASINS	CY	5,125	2.40
EXCESS FILL - REMOVAL FROM SITE	CY	5,125	2.40
GRAVEL - 12 AGGREGATE BASE	CY	1,500	28.00
PAVING - 1 ASPHALT	SY	4,444	7.30
160 CLAY PIPE-ACID SEWER - REMOV	LF	140	75.00
160 CLAY PIPE - ACID SEWER	LF	275	210.69
240 CLAY PIPE - ACID SEWER	LF	135	97.35
20 PVC SCH 80 - AIR PIPE	LF	700	5.45
PVC SCH 80 - CHEM PIPE	LF	700	5.45
2 PVC QUICK CONNECTS W/VALVES	EA	3	60.54
MANHOLES 4' DEEP	EA	4	6,346
MANHOLES 8' DEEP	EA	4	11,904
CHANNELS - CONCRETE	CY	130	296.00
CHANNELS - BEKAPLAST LINER	SF	2,715	25.00
CHANNELS - FLOW CONTROL GATES	EA	4	5,385
TRUCK GRATING	LF	30	320.00
CAUSTIC STORAGE TANKS - GFE	EA	3	4,300
CAUSTIC STORAGE CONCR FOUND	CY	38.20	250.00
CAUSTIC STORAGE - DIKES	CY	10.10	250.00
CAUSTIC STORAGE - SADDLES	CY	37.30	250.00
CAUSTIC PIPING	LS	-	10
40 PVC SCH 80 - CHEM PIPING	LF	300	10.00
CAUSTIC STORAGE - PUMPS	EA	6	4,300
CAUSTIC STORAGE - COATING	SY	539	5.00
DIVERSION STRUCTURE	EA	1	25,000
BLOWER PAD/BLOWER AID PIPING	LS	-	75
CHEM PUMPS AND PIPING	LS	-	20
LEAK MONITORING SYSTEM	LF	1,000	20.00
SITE UTILITIES	LS	-	36
		Total	908
OF NITROCELLULOSE FINES PER DAY AND HAVE PROVISIONS FOR REMOVING THE NITROCELLULOSE FINES.			
REQUIREMENT: TO AVOID A VIOLATION OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REGULATIONS. THERE WAS AN EXISTING LAGOON THAT WAS BEING USED AS AN EQUALIZATION BASIN FOR ACIDIC WASTEWATER. THE LAGOON DID NOT COMPLY WITH RCRA REGULATIONS AND WAS TAKEN FROM SERVICE IN NOVEMBER 1988. AN EQUALIZATION BASIN IS REQUIRED BY THE PLANT NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. REPLACEMENT OF THE LAGOON WITH A TANK/TANKS WILL COMPLY WITH			

1. COMPONENT	2. DATE								
ARMY-PBS	FY 1990 MILITARY CONSTRUCTION PROJECT DATA								
3. INSTALLATION AND LOCATION	4. PROJECT NUMBER								
4. PROJECT TITLE	5. PROJECT NUMBER								
Replace hazardous waste lagoon	6.0001								
7. REQUIREMENT: (Continued)									
REQUIREMENT: (Continued)									
BOTH RCRA AND NPDES REQUIREMENTS.									
CURRENT SITUATION: THE PLANT IS NOT IN VIOLATION AT THE PRESENT TIME BECAUSE THE EXISTING LAGOON HAS BEEN TAKEN FROM SERVICE. INTERIM STATUS UNDER PART A OF RCRA AND COMPLIANCE MONITORING IS IN PROGRESS. CONSTRUCTION OF A PRETREATMENT PLANT HAS BEEN COMPLETED. IT WILL BE USED TO FEED SODIUM HYDROXIDE TO ASSIST IN TREATING ACID SPILLS.									
IMPACT IF NOT PROVIDED: THE EXISTING LAGOON AT HAZARDOUS WASTE MANAGEMENT SITE NO. 4 WAS CLOSED IN NOVEMBER 1988. FACILITIES TO EQUALIZE ACID WASTEWATER FLOW AND TO SETTLE NITROCELLULOSE FINES WILL NOT BE AVAILABLE. LACK OF EQUALIZATION WILL VIOLATE THE NPDES PERMIT( AND COULD RESULT IN FINES, PENALTIES AND BAD PUBLICITY FOR THE ARMY.									
ADDITIONAL: AN ECONOMIC ANALYSIS FOR THIS PROJECT IS EXEMPT IN ACCORDANCE WITH PARAGRAPH 1-3D(3) OF AR 11-28. IT IS REQUIRED TO MEET RCRA REQUIREMENTS									
12. SUPPLEMENTAL DATA:									
A. Estimated Design Data:									
(1) Status:									
(a) Design Start Date ..... 7/88									
(b) Percent Complete As Of 01 January 89 (BDGT YR) ..... 95									
(c) Percent Complete As Of 01 October 89 (PROG YR) ..... 100									
(d) Design Complete Date ..... 3/89									
(2) Basis:									
(a) Standard or Definitive Design - Yes No									
(b) Where Design Was Most Recently Used									
(3) Total Cost (c) = (a)-(b) or (d)-(e): \$000									
(a) Production of Plans and Specifications									
(b) All Other Design Costs									
(c) Total Cost									
(d) Contract									
(e) In-house									
(4) Construction Start ..... JAN 90									
month & year									
B. Equipment associated with this project which will be provided from other appropriations:									
<table border="1"> <thead> <tr> <th rowspan="2">Equipment Nomenclature</th> <th rowspan="2">Procuring Appropriation</th> <th colspan="2">Fiscal Year</th> </tr> <tr> <th>Appropriated</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td colspan="2">None</td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year		Appropriated	Cost (\$000)	None	
Equipment Nomenclature	Procuring Appropriation			Fiscal Year					
		Appropriated	Cost (\$000)						
None									

1. COMPONENT	2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 88		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
Baldwins Army Ammunition Plant, Louisiana, Manufacture Sludge Drying Bed			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
101	10000	10000	10000
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
Primary Facility SLUDGE DRYING BED	LSI	-	237
Subtotal			237
Contingency (10.00%)			24
Total Contract Cost			261
Supervision, Inspection & Overhead (5.50%)			14
Total Request			275
Total Request (Rounded)			280
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction			
PROVIDE FACILITIES FOR DRYING SLUDGE FROM THE BIOLOGICAL WASTEWATER TREATMENT PLANT. MAJOR ITEMS TO INCLUDE SITE WORK, UTILITIES, CONCRETE WALLS, SAND BEDS, PIPE UNDER DRAIN SYSTEM, LINES, AND PUMP AND FORCE MAIN FOR PUMPING OF WATER COLLECTED BY THE UNDER DRAIN SYSTEM.			
11. REQUIREMENT: 20,000 SQ ADEQUATE: None SUBSTANDARD: None			
PROJECT: PROVIDE FACILITIES FOR DRYING SLUDGE FROM THE BIOLOGICAL WASTEWATER TREATMENT PLANT. MAJOR ITEMS TO INCLUDE SITE WORK, UTILITIES, CONCRETE WALLS, AND BEDS, PIPE UNDER DRAIN SYSTEM, LINE, SLUDGE DRAIN LINE, AND PUMP AND FORCE MAIN FOR PUMPING OF WATER COLLECTED BY THE UNDER DRAIN SYSTEM.			
REQUIREMENT: IT IS NEEDED NOW BECAUSE THE EXISTING VACUUM BELT FILTER IS OVERLOADED AND FACILITIES ARE NEEDED TO HANDLE THE EXTRA SLUDGE AND ALL OF THE SLUDGE WHEN THE SLUDGE PRESS IS DOWN FOR MAINTENANCE.			
CURRENT SITUATION: THE EXTRA SLUDGE IS HANDLED BY OPERATING THE EXISTING VACUUM BELT FILTER MORE HOURS AND BY PUMPING THE SLUDGE TO AN UNLINED TEMPORARY DRYING BED WHEN THE VACUUM BELT FILTER IS DOWN FOR MAINTENANCE.			
IMPACT IF NOT PROVIDED: IF THE PROJECT IS NOT APPROVED THE PLANT MAY BE FORCED TO DISPOSE OF SLUDGE IN AN UNLINED LAGOON WHICH MAY CONTAMINATE THE GROUNDWATER.			

1. COMPONENT ARMY-PBS	2. DATE JAN 89								
3. INSTALLATION AND LOCATION Rutherford Army Ammunition Plant, Mississippi									
4. PROJECT TITLE Constituent Sludge Crystallization Bed	5. PROJECT NUMBER 1000								
6. REQUIREMENT: (Continued) ADDITIONAL: AN ECONOMIC ANALYSTS FOR THIS PROJECT IS EXEMPT IN ACCORDANCE WITH PARAGRAPH 1-3D(3) OF AR 11-38.									
7. SUPPLEMENTAL DATA: A. Estimated Design Data: (1) Status: (a) Design Start Date ..... Sep 88 (b) Percent Complete As Of 01 January 89 (BDGT YR) ..... 50 (c) Percent Complete As Of 01 October 89 (PRCG YR) ..... 100 (d) Design Complete Date ..... Apr 89  (2) Basis: (a) Standard or Definitive Design - Yes _____ No _____ (b) Where Design Was Most Recently Used _____  (3) Total Cost (c) = (a)-(b) or (d)-(e): (a) Production of Plans and Specifications ..... \$000 (b) All Other Design Costs ..... (c) Total Cost ..... (d) Contract ..... (e) In-house .....  (4) Construction Start ..... Jun 90 Month & year									
8. Equipment associated with this project which will be provided from other appropriations:  <table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td colspan="4">None</td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost	None			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost						
None									

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ARMY PRODUCTION BASE SUPPORT - FY 1991

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SECTION 2 - FY 1991

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DEPARTMENT OF THE ARMY  
FISCAL YEAR 1991  
MILITARY CONSTRUCTION (PBS)  
DOLLARS ARE IN THOUSANDS  
UNITED STATES

STATE	DESCRIPTION		AUTHORIZATION APPROPRIATION REQUEST			PERCENT REQUEST DESIGN PAGE
	PROJECT NUMBER	PROJECT TITLE	REQUEST	REQUEST	DESIGN	
Alabama	Redstone Arsenal (AMC)					
	18143	Operations Building	1,300	1,300	NA	
	01109	Calibration Laboratory	640	640	NA	
	SUBTOTAL Redstone Arsenal		\$ 2,340	\$ 2,340		
* TOTAL PBS FOR Alabama		\$ 2,340	\$ 2,340			
Indiana	Indiana Army Ammunition Plant (AMC)					
	28688	Roof/Ceiling Insulation	400	400	NA	
	SUBTOTAL Indiana Army Ammunition Plant		\$ 400	\$ 400		
	Newport Army Ammunition Plant (AMC)					
	28132	Chemical Area Energy Reduction Program	1,500	1,500	NA	
	SUBTOTAL Newport Army Ammunition Plant		\$ 1,500	\$ 1,500		
	* TOTAL PBS FOR Indiana		\$ 1,930	\$ 1,930		
Iowa	Iowa Army Ammunition Plant (AMC)					
	01273	Construct Truck Docks	600	600	NA	
	01279	Upgrade Building 300-148 HVAC	240	240	NA	
	SUBTOTAL Iowa Army Ammunition Plant		\$ 870	\$ 870		
	* TOTAL PBS FOR Iowa		\$ 870	\$ 870		
Louisiana	Louisiana Army Ammunition Plant (AMC)					
	6288	Surface Roads Area L-3	400	400	NA	
	SUBTOTAL Louisiana Army Ammunition Plant		\$ 400	\$ 400		
	* TOTAL PBS FOR Louisiana		\$ 400	\$ 400		

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SECTION 2 - FY 1991

DEPARTMENT OF THE ARMY  
FISCAL YEAR 1991  
MILITARY CONSTRUCTION (PBS)  
DOLLARS ARE IN THOUSANDS  
OUTSIDE THE UNITED STATES

STATE	INSTALLATION/COMPLEX		AUTHORIZATION APPROPRIATION PERCENT			
	PROJECT NUMBER	PROJECT TITLE	REQUEST	REQUEST	DESIGN	PAGE
Missouri	Lake City Army Ammunition Plant (AMC)					19
	27734	Renovate Lightning Protection	630	630	NA	19
	28957	Construct Storage Facility	570	570	NA	22
	SUBTOTAL, Lake City Army Ammunition Plant		\$ 1,200	1,200		
	* TOTAL PBS FOR Missouri		\$ 1,200	1,200		
Tennessee	Holston Army Ammunition Plant (AMC)					24
	5022	Replace Magazine Bridge	4,052	4,052	NA	24
	22527	Modernize Steam Headers	2,050	2,050	NA	26
	SUBTOTAL, Holston Army Ammunition Plant		\$ 6,402	6,402		
	Milas Army Ammunition Plant (AMC)					29
	28069	Metrology Laboratory	460	460	NA	29
	SUBTOTAL, Milas Army Ammunition Plant		\$ 460	460		
	* TOTAL PBS FOR Tennessee		\$ 6,362	6,362		
Texas	Lone Star Army Ammunition Plant (AMC)					31
	29631	Pyrotechnic Production	4,400	4,400	NA	31
	SUBTOTAL Lone Star Army Ammunition Plant		\$ 4,400	4,400		
	Longhorn Army Ammunition Plant (AMC)					34
	16686	Construct Fire Station	640	640	NA	34
	23464	Pyrotechnic Safety Enhancement	1,250	1,250	NA	36
	31199	Construct MUSALL Complex	64,000	64,000	NA	39
	SUBTOTAL Longhorn Army Ammunition Plant		\$ 65,890	65,890		
	* TOTAL PBS FOR Texas		\$ 70,290	70,290		

DEPARTMENT OF THE ARMY  
 FISCAL YEAR 1991  
 MILITARY CONSTRUCTION - PBS  
 DOLLARS ARE IN THOUSANDS  
 INSIDE THE UNITED STATES

STATE	INSTALLATION / COMMAND		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PERCENT DESTIN	PAGE
	PROJECT NUMBER	PROJECT TITLE				
Virginia	Radford Army Ammunition Plant (AMC)					41
	29596	Replace Five Barricades	1,150	1,150	NA	41
	29601	Fuel Storage and Dispensing Station	90	90	NA	42
		SUBTOTAL Radford Army Ammunition Plant	\$ 1,240	\$ 1,240		
	* TOTAL PBS FOR Virginia	\$ 1,240	\$ 1,240			
	**TOTAL INSIDE THE UNITED STATES FOR PBS	\$ 35,332	\$ 35,332			

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SECTION 2 - FY 1991

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SECTION 2 - FY 1991

DEPARTMENT OF THE ARMY  
MILITARY CONSTRUCTION (PBS) FY 1991

INSTALLATION LIST

<u>INSTALLATION</u>	<u>MACOM</u>	<u>PAGE</u>
H		
Holston Army Ammunition Plant	AMC	24
I		
Indiana Army Ammunition Plant	AMC	5
Iowa Army Ammunition Plant	AMC	10
L		
Lake City Army Ammunition Plant	AMC	19
Lone Star Army Ammunition Plant	AMC	31
Longhorn Army Ammunition Plant	AMC	34
Louisiana Army Ammunition Plant	AMC	14
M		
Milan Army Ammunition Plant	AMC	29
N		
Newport Army Ammunition Plant	AMC	7
R		
Radford Army Ammunition Plant	AMC	41
Redstone Arsenal	AMC	1

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1. COMPONENT		2. DATE		
FY 1991 MILITARY CONSTRUCTION PROJECT DATA				
ARMY-PBS		JAN 88		
3. INSTALLATION AND LOCATION		4. PROJECT TITLE		
Redstone Arsenal, Alabama		Operations Building		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (1000)	
73011A	020	13141	17,835	1,403
9. COST ESTIMATES				
ITEM	QTY	QUANTITY	UNIT COST	COST
<u>Primary Facility</u>				
Operations Building	57	25,509	55.00	(1,403)
<u>Supporting Facilities</u>				248
Electric Service	LS	-	-	(11)
Water, Sewer & Gas	LS	-	-	(58)
Paving, Walks, Curbs & Gutters	LS	-	-	90
Storm Drainage	LS	-	-	12
Site Improvement	LS	-	-	67
<u>Subtotal</u>				1,651
Contingency (10.00%)				165
Total Contract Cost				1,816
Supervision, Inspection & Overhead (5.60%)				102
Total Request				1,918
Total Request (Rounded)				1,900
Installed Equipment - Other Appropriations				(3)
10. Description of Proposed Construction		An Operations Building is needed to house production support functions. These support functions will include office areas for production, industrial engineering, safety planning and other related functions that support line operations. Also included will be a replacement facility for medical/first aid and the photo lab/print shop.		
<u>11. REQUIREMENT:</u> 25,509 SF ADEQUATE: None <u>SUBSTANDARD:</u> 17,835 SF				
<u>PROJECT:</u> This project provides housing for support personnel now scattered throughout the plant. A new administration facility of approximately 25,509 square feet is needed.				
<u>REQUIREMENT:</u> These personnel are currently performing the functions of production/manufacture control, photography, industrial engineering, safety supervision and other operational support activities from undersized and old World War II facilities that have exceeded their useful life. Most of these old facilities do not meet quantity distance requirements as specified by the new and revised Safety Manual AR 385-100. Operation is permitted now only through "grandfather clauses". Due to the fact that these old facilities do not meet quantity distance requirements, administrative personnel can not occupy space in these old facilities. The areas which will be vacated by the admin personnel will be utilized by operating personnel, if required, or				

1. COMPONENT	2. DATE		
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
AGENCY-DES	JAN 93		
3. INSTALLATION AND LOCATION			
Reidstone Industrial Complex			
4. PROJECT TITLE	5. PROJECT NUMBER		
Operations Building			
6. REQUIREMENT (Continued)			
REQUIREMENT (Continued)			
utilized as minimum maintenance areas. On-site review teams have determined that additional funding for rehabilitating these old facilities will not be allocated.			
<u>CURRENT SITUATION:</u> Production support personnel are in numerous scattered facilities throughout the plant. The majority are in World War II facilities that have exceeded their useful life and violate quantity distance limitations as specified in the revised AR 385-100 for housing administrative personnel. In addition, where these old facilities have been 'outgrown', temporary trailers are being rented to house personnel.			
<u>IMPACT IF NOT PROVIDED:</u> Continued use of obsolete World War II facilities that are not cost effective to maintain as well as continued operations with administrative personnel within quantity distance of operating buildings, i.e., continued operations under a safety 'grandfather clause'. In addition, temporary trailers will continue to be used to house overflow personnel.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date .....			
(b) Percent Complete As Of 01 January 90 (BDGT YR).....			
(c) Percent Complete As Of 01 October 90 (PROG YR).....			
(d) Design Complete Date .....			
(2) Basis:			
(a) Standard or Definitive Design - Yes <u>  </u> No <u>  </u>			
(b) Where Design Was Most Recently Used .....			
(3) Total Cost (c) = (a)+(b) or (d)-(e): (\$000)			
(a) Production of Plans and Specifications .....			
(b) All Other Design Costs .....			
(c) Total Cost .....			
(d) Contract .....			
(e) In-house .....			
(4) Construction Start .....			
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

1. COMPONENT	2. DATE			
FY 1991 MILITARY CONSTRUCTION PROJECT DATA				
ARMY-PBS	JAN 19			
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
Redstone Arsenal, Alabama	Calibration Laboratory			
15. PROGRAM ELEMENT	16. CATEGORY CODE	17. PROJECT NUMBER	18. REQUEST UNIT NUMBER	19. REQUEST UNIT NUMBER
000	00000	00000	00000	00000
20. COST ESTIMATES				
ITEM	3.4.1	QUANTITY	3.4.2	3.4.3
<u>Primary Facility</u>				492
Calibration Lab	SF	5,863	34.00	492
<u>Supporting Facilities</u>				51
Electric Service	LS	-	-	13
Water, Sewer & Gas	LS	-	-	13
Steam, Chilled Water & Heat Distribution	LS	-	-	21
Paving, Walks, Curbs & Gutters	LS	-	-	14
Site Improvement	LS	-	-	10
<u>Subtotal</u>				553
<u>Contingency (10.00%)</u>				55
<u>Total Contract Cost</u>				608
Supervision, Inspection & Overhead (5.60%)				34
<u>Total Request</u>				642
<u>Total Request (Rounded)</u>				640
Installed Equipment - Other Appropriations				0
11. Description of Proposed Construction	Build a replacement Calibration Lab to house all electrical and mechanical calibration test equipment and operations			
11. REQUIREMENT	5,863 SF ADEQUATE: None SUBSTANDARD: 3,067 SF			
PROJECT	This project will provide a new facility of approximately 5,863 square feet that contains the appropriate temperature and humidity controls necessary to perform electrical and mechanical calibration.			
REQUIREMENT	Currently electrical and mechanical calibration can not be performed efficiently or effectively due to the total lack of appropriate temperature and humidity control that is required for modern state-of-the-art test equipment. The only temperature and humidity control presently available is provided by steam heat and window air conditioners. In addition, the electrical and mechanical calibration labs are separated and housed in wooden, temporary World War II buildings that have exceeded their useful life. There is not sufficient space in these old wooden facilities to adequately support the calibration procedures required by the manufacturing process, or new state-of-the-art calibration equipment.			
CURRENT SITUATION	Currently, the electrical and mechanical calibration laboratory functions are performed in two separate, World War II buildings that only have steam heat and window air conditioners. This is not sufficient			

1. COMPONENT	1. DATE								
ARMY-PBS	JAN 89								
2. INSTALLATION AND LOCATION									
Redstone Arsenal, Alabama									
3. PROJECT TITLE	4. PROJECT NUMBER								
Calibration Description	11112								
5. REQUIREMENTS (Continued)									
CURRENT SITUATION (Continued)									
<p>to meet the temperature and humidity control requirements demanded by todays state-of-the-art calibration equipment. In the existing facilities calibration activities have to be scheduled around ambient atmospheric conditions that can be controlled by the window air conditioners. If conditions vary outside control capability limits, the calibration must be postponed. In addition, the facilities have exceeded their useful life and are beyond economic repair.</p>									
<p><u>IMPACT IF NOT PROVIDED:</u> Calibration operations will continue to be subject to and impacted by changes in weather. This leads to an inefficient operation. Under these conditions the potential for erroneous calibration of pertinent test equipment exists which in turn could lead to extremely expensive production problems. In addition to these problems and potential problems, World War II facilities will continue to be utilized and maintained.</p>									
12. SUPPLEMENTAL DATA:									
A. Estimated Design Data:									
(1) Status:									
<p>(a) Design Start Date .....          (b) Percent Complete As Of 01 January 90 (BDGT YR) .....          (c) Percent Complete As Of 01 October 90 (PROG YR) .....          (d) Design Complete Date .....</p>									
(2) Basis:									
<p>(a) Standard or Definitive Design - Yes <u>      </u> No <u>      </u>          (b) Where Design Was Most Recently Used .....</p>									
(3) Total Cost (c) = (a)+(b) or (d)-(e): (\$000)									
<p>(a) Production of Plans and Specifications .....          (b) All Other Design Costs .....          (c) Total Cost .....          (d) Contract .....          (e) In-house .....</p>									
(4) Construction Start ..... month & year									
B. Equipment associated with this project which will be provided from other appropriations:									
<table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td></td> <td>None</td> <td></td> <td></td> </tr> </tbody> </table>		Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)		None		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)						
	None								

1. COMPONENT	2. DATE		
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
Indiana Army Ammunition Plant, Indiana		Roof/Ceiling Insulation	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (EST. 100%)
		19633	410
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	UNIT COST
Primary Facility Roof/Ceiling Insulation	13	-	373
Subtotal			373
Contingency (10.00%)			37
Total Contract Cost			410
Supervision, Inspection & Overhead (5.50%)			23
Total Request			433
Total Request (Rounded)			433
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction			
Insulate the roof and/or ceiling areas of 23 buildings. These areas will be insulated by spraying foam insulation over the existing roof area, using batt insulation between the roof joists or blowing-in fiberglass insulation above the existing ceiling. The most appropriate insulation technique will be used for the specific building involved.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: Provide the materials and labor necessary to insulate the roof or ceiling areas of 23 buildings.			
REQUIREMENT: Implementation of this project will help meet plant goals and mandated energy reduction requirements.			
CURRENT SITUATION: Large quantities of fuel oil and electricity, acquired at great expense, are needed to meet INAAP energy requirements.			
IMPACT IF NOT PROVIDED: It is much less expensive, considering Life Cycle Costs, to implement these projects than to continue purchasing energy supplies. Implementation of this project will result in an estimated reduction in plant energy consumption of 20,364 MBTU/Yr. This represents a net 9.3% decline in energy use from FY87 levels. Failure to approve this project will result in continued consumption of unnecessarily large quantities			

1. COMPONENT		2. DATE								
FY 1991 MILITARY CONSTRUCTION PROJECT DATA										
ARMY-PBS		JAN 90								
3. INSTALLATION AND LOCATION										
Indiana Army Ammunition Plant, Indiana										
4. PROJECT TITLE		5. PROJECT NUMBER								
Roof, Ceiling, Insulation		08688								
6. REQUIREMENT (Continued)										
IMPACT IF NOT PROVIDED (Continued)										
of energy, the annual equivalent of 3,481 barrels of oil.										
12. SUPPLEMENTAL DATA:										
A. Estimated Design Data:										
(1) Status:										
(a) Design Start Date ..... <u>Feb 90</u>										
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... <u>100</u>										
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... <u>100</u>										
(d) Design Complete Date ..... <u>Oct 90</u>										
(2) Basis:										
(a) Standard or Definitive Design - Yes <u>  </u> No <u>  </u>										
(b) Where Design Was Most Recently Used <u>  </u>										
(3) Total Cost (c) = (a)+(b) or (d)+(e) (\$000)										
(a) Production of Plans and Specifications ..... <u>  </u>										
(b) All Other Design Costs ..... <u>  </u>										
(c) Total Cost ..... <u>  </u>										
(d) Contract ..... <u>  </u>										
(e) In-house ..... <u>  </u>										
(4) Construction Start ..... <u>Apr 91</u> month & year										
B. Equipment associated with this project which will be provided from other appropriations:										
<table> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td>None</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)	None			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)							
None										

1. COMPONENT	2. DATE			
FY 1991 MILITARY CONSTRUCTION PROJECT DATA				
ARMY-PBS	JAN 83			
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
Newport Army Ammunition Plant, Indiana		Chemical Area Chemistry Reduction Program		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. COST ESTIMATE
101	08100	10000	10000	10000
10. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	ESTIMATE
<u>Primary Facility</u>				
Building Heating Systems	LS	-	-	1,132
Building Modifications	LS	-	-	968
				2,100
<u>Supporting Facilities</u>				
Electric Service	LS	-	-	114
				114
<u>Subtotal</u>				1,306
Contingency (10.00%)				131
<u>Total Contract Cost</u>				1,437
Supervision, Inspection & Overhead (5.50%)				79
<u>Total Request</u>				1,516
<u>Total Request (Rounded)</u>				1,500
Installed Equipment - Other Appropriations				10
11. Description of Proposed Construction: Deactivate central steam plant, Building 103 and install twenty-one (21) heating units and all necessary and related items on an individual building basis. Install an automatic night temperature setback system, roof and wall insulation, and storm windows in active buildings. Install a backup fuel source (No. 2 Heating Oil) and an emergency generator to continue heat during power outages.				
11. REQUIREMENT: 21 LS ADEQUATE: None SUBSTANDARD: 1 LS				
PROJECT: Deactivate central steam plant and install individual heating units, insulation, night setback control systems, and storm windows in central shops area active buildings. The project will include the following estimated quantities:				
Number of buildings to be modified: 15				
Infra red heating units: 4				
Modular hot water heating units: 13				
Package boilers (hot water): 4				
Fuel Tanks: 14				
Diesel Generator 250 KW: 1				
Ceiling insulation: 22,790 Sq. Ft.				
Wall insulation: 169,020 Sq. Ft.				

1. COMPONENT ARMY-PBS	2. DATE JAN 89
3. INSTALLATION AND LOCATION Newport Army Ammunition Plant, Indiana	
4. PROJECT TITLE Chemical Area Energy Reduction Program	5. PROJECT NUMBER 13100
6. REQUIREMENT (Continued) PROJECT (Continued) Storm Windows: 2265 Sq. Ft. Heater Enclosures: 14 Underground gas line 1, 1 1/2, 2: 5,240 Ln. Ft. (with cathodic protection)	
<u>REQUIREMENT:</u> This project will save an estimated \$399,174 and 56,200,000 BTU per year. It will reduce energy waste and maintenance on outdated equipment.	
<u>CURRENT SITUATION:</u> Subject buildings were constructed in 1940's without energy conservation measures such as insulation and storm windows. The central steam plant was installed in the 1950's without condensate return, manual controls, and excessive makeup water requirements and an oversized poorly insulated distribution system. The central steam plant is operating at a very poor efficiency rating of 30% or less.	
<u>IMPACT IF NOT PROVIDED:</u> Continued loss of \$399,174 and 56,200,000 BTU per year in inefficient use of energy and manpower. Increased maintenance and decreased reliability of the system.	
12. SUPPLEMENTAL DATA: A. Estimated Design Data: (1) Status: (a) Design Start Date ..... Jul 89 (b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100 (c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100 (d) Design Complete Date ..... Nov 89  (2) Basis: (a) Standard or Definitive Design - Yes ____ No ____ (b) Where Design Was Most Recently Used _____  (3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000) (a) Production of Plans and Specifications ..... (b) All Other Design Costs ..... (c) Total Cost ..... (d) Contract ..... (e) In-house .....  (4) Construction Start ..... Jun 91 month & year	

1. COMPONENT	2. DATE	
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA OCT 89	
3. INSTALLATION AND LOCATION		
Newport Army Ammunition Plant, Indiana		
4. PROJECT TITLE	5. PROJECT NUMBER	
Chemical Area Energy Reduction Program 18100		
6. SUPPLEMENTAL DATA: (Continued)		
3. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated or Requested
None		Cost \$000

1. COMPONENT	1. DATE		
ARMY-PBS	JAN 89		
2. INSTALLATION AND LOCATION	3. PROJECT TITLE		
Iowa Army Ammunition Plant, Iowa	Construct Truck Docks		
4. PROGRAM ELEMENT	5. CATEGORY CODE	6. PROJECT NUMBER	7. PROJECT COST (000)
400	31273	100000	600
8. COST ESTIMATES			
ITEM	QTY	QUANTITY	UNIT COST
<u>Primary Facility</u> Yard E Docks	EA	4	134,750
Subtotal			539
Contingency (10.00%)			54
Total Contract Cost			593
Supervision, Inspection & Overhead (5.50%)			33
Total Request			626
Total Request (Rounded)			630
Installed Equipment - Other Appropriations			0
10. Description of proposed construction	These Yard E warehouses are above-ground magazine structures of permanent concrete & masonry tile construction measuring approximately 50' wide x 500' long. They are elevated above grade to rail car height and a spur track and open dock platform runs the length of their east side. It is proposed to build an acceptable truck dock to replace the makeshift facilities that now provide motor vehicle access to these structures.		
11. REQUIREMENT:	None ADEQUATE: None SUBSTANDARD: None		
PROJECT:	Construct four new truck docks at four existing elevated warehouses, Bldg Nos. 10-41-14 thru 17, to replace four substandard docks.		
REQUIREMENT:	This project is required to provide safe and adequate facilities for the handling of material from motor trucks to the warehouses in accordance with the construction requirements of OSHA 1910.39.		
CURRENT SITUATION:	The current docking facilities are a make-shift combination of wood and concrete which is hung onto the narrow end of the rail platform at one end of each warehouse. They have no railings, enclosures or permanent dock boards and are becoming structurally questionable because of their advancing age. In addition, they are just too small to safely handle electric fork lifts and the access roads to them are narrow crushed rock		

1. COMPONENT	2. DATE		
ARMY-PBS	JAN 88		
3. INSTALLATION AND LOCATION			
Iowa Army Ammunition Plant, Iowa			
4. PROJECT TITLE	5. PROJECT NUMBER		
Construct Truck Docks	11078		
6. REQUIREMENTS: (Continued)			
CURRENT SITUATION: (Continued)			
paths.			
IMPACT IF NOT PROVIDED: The current conditions and operations continue until we are forced to cease truck transfer operations. Rail transfer operations will continue without benefit of an enclosed dock shelter.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Nov 88		
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 90 (PRCG YR)	100		
(d) Design Complete Date	Dec 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 91		
	month & year		
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year <u>Appropriated</u> <u>Or Requested</u>	Cost (\$000)
	None		

1. COMPONENT	2. DATE		
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 92		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
IOWA ARMY AMMO DEPOT PLANT, IOWA	Upgrade Building 101-1-1 HVAC		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
73011	821	11273	240
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
Primary Facility Upgrade HVAC	LS	-	-
Subtotal			209
Contingency (10.00%)			21
Total Contract Cost			230
Supervision, Inspection & Overhead (5.50%)			13
Total Request			243
Total Request (Rounded)			240
Installed Equipment - Other Appropriations			(0)
10. Description of Proposed Construction		This project consists of insulating the steamlines and installing a pneumatic steam control system for each unit heater.	
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: Provide a thermal control valve system for night and weekend temperature setback for each wing of the building, plus automatic shutdown of the heating system when outside temperature is above 65 degrees F. Improve ventilation, install destratification devices in the sheet metal and carpenter shops, lunchroom and hi-line crew areas, and silencers on existing recirculation fans.			
CURRENT SITUATION: The existing building heating system consists of unit heater heaters controlled by electric thermostats that shut off only the fan and not the steam supply. Steam continues to flow to the heater coils and associated piping - allowing continuous radiation, convection and steam trap losses. In addition, the 5 PSI Steamlines supplying the unit heaters are not insulated.			
IMPACT IF NOT PROVIDED: The wasteful and inefficient heating system will have to continue to be operated as now exists.			

1. COMPONENT ARMY-PBS	2. DATE JAN 89		
3. INSTALLATION AND LOCATION Iowa Army Ammunition Plant, Iowa			
4. PROJECT TITLE Upgrade Building 110-148 HVAC	5. PROJECT NUMBER 11073		
6. SUPPLEMENTAL DATA			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Nov 88		
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 90 (PROG YR)	100		
(d) Design Complete Date	Dec 89		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)-(b) or (d)-(e):			
(a) Production of Plans and Specifications	5000		
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 91		
	month & year		
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Aborciption</u>	Fiscal Year <u>Appropriated</u>	Cost <u>Or Requested</u>
	None		5000

1. COMPONENT ARMY-PBS		1. DATE JAN 89	
2. DESCRIPTION & LOCATION Louisiana Army Ammunition Plant, Louisiana Surface Roads Area L-3			
3. PRIMARY ELEMENT	CATEGORY CODE	PROJECT NUMBER	PROJECT COST (000)
351	6288	1000	348
4. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
Primary Facility ROADS PAVED	SY	36,373	9.58 (348)
Subtotal			348
Contingency (10.00%)			35
Total Contract Cost			383
Supervision, Inspection & Overhead (5.50%)			21
Total Request			404
Total Request (Rounded)			400
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction		PROVIDE ALL WEATHER SURFACE ON EXISTING ROADBEDS. STABILIZE BASE FOR SURFACING AND PROVIDE NEW ACCESS ROADS. Phase I of this project is to install approximately 3.1 miles of hard surfacing on rough gravel roads in Area L-3. Scarify road bed, shape, and clean ditches. Remove any soft spots, replace in 6" lifts of sand, clay, and gravel, then compact. After all patch work is accomplished, 6" of sand, clay, and gravel shall be hauled, spread, and compacted to 95% density based on modified proctor. After base material is compacted and all test passed, base shall be surfaced with 2" bituminous mixture for hot application (hot mix). After surfacing is accomplished, shoulder material of sand, clay, and gravel shall be hauled, spread, and compacted. When completed, shoulders shall be 3' wide each side of the road.	
11. REQUIREMENT: None ADEQUATE: 648,416 SY SUBSTANDARD: 72,746 SY PROJECT: This project will implement Phase I of providing a hard surface on approximately 3.1 miles of rough gravel roads. Road beds will be scarified, shaped, have soft spots removed, and then will be over-layed with a bituminous hot mix. REQUIREMENT: Gravel roads were established in 1942. These roads require constant maintenance because of pot holes, soft spots, ruts, etc. Because			

1. COMPONENT	2. DATE		
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA JAN 89		
3. INSTALLATION AND LOCATION			
Louisiana Army Ammunition Plant, Louisiana			
4. PROJECT TITLE	5. PROJECT NUMBER		
Surface Roads Area 3-3			
6. REQUIREMENT (Continued)			
REQUIREMENT (Continued)			
these roads are used primarily by vehicles hauling explosives, a safety problem exist. Because of the dust, pot holes, etc., extra maintenance is required for these vehicles hauling explosives.			
CURRENT SITUATION: Gravel roads are used by vehicles hauling explosives. These roads are constantly being graded and maintained to keep a smooth surface. Explosive hauling vehicles are maintained frequently to assure safe hauling of explosives.			
IMPACT IF NOT PROVIDED: EXCESSIVE ROAD MAINTENANCE AND VEHICLE MAINTENANCE COSTS WILL CONTINUE. Vehicles hauling bulk explosives and finished ammunition items will continue to travel over rough gravel roads where the potential for an accident is greater than on asphalt. Cost of maintenance of the roads and vehicles will be higher for the gravel roads than would be expected on asphalt surfaced roads.			
ADDITIONAL: An economic analysis Format 3 has been submitted.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date ..... Aug 88			
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100			
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100			
(d) Design Complete Date ..... Dec 89			
(2) Basis:			
(a) Standard or Definitive Design - Yes No			
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start ..... Apr 91 month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

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SECTION 2 - FY 1991

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SECTION 2 - FY 1991

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**SECTION 2 - FY 1991**

1. COMPONENT ARMY-PBS	1. DATE FEB 89		
2. INSTALLATION AND LOCATION Lake City Army Ammunition Plant, Missouri		4. PROJECT TITLE Rehabilitate Lightning Protection	
5. PROGRAM ELEMENT 870	6. CATEGORY CODE 00004	7. PROJECT NUMBER 100000	8. PROJECT COST \$101,546
9. COST ESTIMATES			
ITEM Primary Facility Rehab Lightning Protection	QTY 1S	QUANTITY -	ITEM COST \$101,546
Subtotal			546
Contingency (10.00%)			55
Total Contract Cost			601
Supervision, Inspection & Overhead (5.50%)			33
Total Request			634
Total Request (Rounded)			630
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction		Renovate the existing lightning protection systems on approximately 110 buildings and structures at LCAAP. Rehabilitation to include but not be limited to the following items to bring the systems into compliance with AMC-R 385-100:	
<ol style="list-style-type: none"> <li>1) Provide 24 inch minimum height air terminals.</li> <li>2) Correct radii on ridge conductors and other conductors to 8 inch minimum.</li> <li>3) Provide adequate quantity of down conductors.</li> <li>4) Provide proper connection of grounding to utility entrances to buildings.</li> <li>5) Verify proper railroad bonding and grounding.</li> </ol> <p>The project sites are protected from flood waters by a levee.</p>			
11. REQUIREMENT: 160,000 LF ADEQUATE: None		SUBSTANDARD: 128,000 LF	
<p><u>PROJECT:</u> This project will provide upgrade of existing lightning protection systems and installation of additional systems required to meet the specifications of AMC-R 385-100, Chapter 8, on a plantwide basis for approximately 110 buildings and structures excluding the buildings listed under Related Projects.</p> <p><u>REQUIREMENT:</u> The design criteria for the majority of the lightning</p>			

1. COMPONENT		2. DATE
ARMY-PBS		JAN 89
3. INSTALLATION AND LOCATION		
Lake City Army Ammunition Plant, Missouri		
4. PROJECT TITLE		5. PROJECT NUMBER
Rehabilitate lightning Protection		17714
6. REQUIREMENT (Continued)		
REQUIREMENT (Continued)		
protection systems on plant is inadequate by current accepted standards as outlined in AMC-R 385-100. Also most of the systems exceed the 25 year economic life and suffer from deterioration.		
CURRENT SITUATION: Approximately 1,100 additional manhours annually are needed to maintain the obsolete systems such as replacement of ground rods to achieve adequate conductivity. However, major rehabilitation is required to achieve compliance with AMC-R 385-100. Waiver LC-E-2-71 is still in effect and covers lightning protection deficiencies relative to AMC-R 385-100.		
IMPACT IF NOT PROVIDED: If this project is not provided, LCRAP will continue to operate outside the requirements of AMC-R 385-100 for lightning protection. The destruction of three (3) propellant storage facilities has been attributed to lightning since 1978. Without improvement, it is assumed that the safety of both personnel and property will be compromised, and that additional losses due to lightning can be expected.		
ADDITIONAL: A 10 percent contingency factor is currently being used in accordance with project preparation guidance since this project consists primarily of rehabilitation work.		
Justification for this project is not based on economics, but rather on the need to comply with safety regulations. However, some economic improvements in the form of reduced maintenance costs will be realized by implementation of this project.		
This is not a Specific Mobilization Requirement as the lightning protection project is safety related and will have no direct effect on production capacity.		
This project is currently programmed as 5912700-31. Estimated costs are in FY91 inflated \$000.		
RLE:kah Form No. 27714		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date ..... Jul 88		
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100		
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100		
(d) Design Complete Date ..... Nov 89		
(2) Basis:		
(a) Standard or Definitive Design - Yes _____ No _____		
(b) Where Design Was Most Recently Used _____		
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)		
(a) Production of Plans and Specifications ..... _____		

1. COMPONENT	2. DATE		
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION			
Lane City Army Ammunition Plant, Missouri			
4. PROJECT TITLE	5. PROJECT NUMBER		
Rehabilitate Incendiary Protection			
6. SUPPLEMENTAL DATA: (Continued)			
A. Estimated Design Data: (Continued)			
(3) Total Cost: (Continued)	(5000)		
(b) All Other Design Costs .....	.....		
(c) Total Cost .....	.....		
(d) Contract .....	.....		
(e) In-house .....	.....		
(4) Construction Start .....	Mar 91		
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year <u>Appropriated Or Requested</u>	Cost <u>(5000)</u>
None			

1. COMPONENT	2. DATE		
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION	4. PROJECT TITLE		
Lake City Army Ammunition Plant, Missouri, Construct Storage Facility			
5. PROJECT ELEMENT	6. ACTIVITY CODE	7. PROJECT NUMBER	8. PROJECT NAME
121	19957	121	121
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	BEST COST
<u>Primary Facility</u>			
Storage Building	SF	11,200	13.17
			148
			(148)
<u>Supporting Facilities</u>			
Electric Service	LS	-	-
Steam, Chilled Water & Heat Distribution	LS	-	-
Site Improvement	LS	-	-
Other	LS	-	-
			345
			(50)
			(17)
			(39)
			(129)
<u>Subtotal</u>			493
Contingency (10.00%)			49
<u>Total Contract Cost</u>			542
<u>Supervision, Inspection &amp; Overhead (5.50%)</u>			30
<u>Total Request</u>			572
<u>Total Request (Rounded)</u>			570
Installed Equipment - Other Appropriations			(0)
10. Description of Proposed Construction	Construct a new 11,200 square foot warehouse for the storage of flammable liquids and corrosive liquids. The two products would be separated by a fire resistant wall. The new warehouse would have a foam fire protection sprinkler system and adequate containment in case of a spill of the flammable or corrosive liquids. The location of the facility would be east of Building 121G. The warehouse would also have heat, a restroom facility, lighting, safety shower, truck docks, access roads, outside security lighting, security fencing, lightning protection, railroad spur, and telephone service.		
11. REQUIREMENT:	544,841 SF ADEQUATE: 533,641 SF SUBSTANDARD: None		
PROJECT:	This subproject will provide separate storage facilities for flammable liquids and corrosive liquids in the Warehouse Building 121 Series area of LCAAP.		
REQUIREMENT:	This project will correct safety and fire protection deficiencies caused by storing flammable liquids next to corrosive liquids in a warehouse.		
CURRENT SITUATION:	The flammable liquids and corrosive liquids are currently being stored next to each other and in the same warehouse as combustible items.		

1. COMPONENT	2. DATE									
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA									
3. INSTALLATION AND LOCATION	JAN 89									
Lake City Army Ammunition Plant, Missouri										
4. PROJECT TITLE	PROJECT NUMBER									
Construct Storage Facility	13957									
5. REQUIREMENTS: Continued:										
IMPACT IF NOT PROVIDED: The flammable liquids and corrosive liquids will continue to be stored next to each other and in the same warehouse with combustible items.										
ADDITIONAL: This project is currently programmed in PSR Project 5915332 as SP/LI 10-4.										
Specific Mobilization Requirement: This project is needed to satisfy FYDP production requirements and is needed to insure adequate chemical storage facilities to meet mobilization production schedules.										
KLC:kan										
Form No.: 28957										
12. SUPPLEMENTAL DATA:										
A. Estimated Design Data:										
(1) Status:										
(a) Design Start Date ..... Dec 88										
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100										
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100										
(d) Design Complete Date ..... Oct 89										
(2) Basis:										
(a) Standard or Definitive Design - Yes _____ No _____										
(b) Where Design Was Most Recently Used _____										
(3) Total Cost (c) = (a)-(b) or (d)-(e): \$5000										
(a) Production of Plans and Specifications _____										
(b) All Other Design Costs _____										
(c) Total Cost _____										
(d) Contract _____										
(e) In-house _____										
(4) Construction Start ..... Apr 91										
month & year										
B. Equipment associated with this project which will be provided from other appropriations:										
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Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost							
None										

I. COMPONENT		FY 1991 MILITARY CONSTRUCTION PROJECT DATA			II. DATE
ARMY-RES					JAN 89
III. INSTALLATION AND LOCATION		PROJECT TITLE			
Holston Army Ammunition Plant, Tennessee		Replace Magazine Bridge			
IV. PROGRAM ELEMENT	CATEGORY CODE	PROJECT NUMBER	PROJECT COST		
			4,042	4,042	4,042
V. FOCUS		125	FOCUS	4,042	4,042
VI. COST ESTIMATES					
ITEM		U/M	QUANTITY	INIT COST	ESTIM
Primary Facility Construct Bridge		LSI	-	-	4,042
					(4,042)
Subtotal					4,042
Contingency (5.00%)					202
Total Contract Cost					4,244
Supervision, Inspection & Overhead (5.50%)					233
Total Request					4,477
Total Request (Rounded)					4,500
Installed Equipment - Other Appropriations					(320)
VII. Description of Proposed Construction		Replace existing bridge over Holston River to X-Magazine Explosives Storage Area.			
VIII. REQUIREMENT: 1 ea ADEQUATE: None SUBSTANDARD: 1 ea					
PROJECT:					
FOCUS a. 2-lane road bridge, HS20 capacity, 24 ft wide x 1500 ft long.					
a. 2-lane road bridge, HS20 capacity, 24 ft wide x 1500 ft long.					
b. Approx. 400 ft 2-lane asphalt concrete approach road on each side of river.					
c. Sentry (guard) building, 8 ft wide x 10 ft long x 8 ft high near south end of bridge.					
d. A break-rest building, 12 ft wide x 20 ft long x 8 ft high with male and female sanitary facilities, electricity, and heat.					
e. 24 ft double swing gate at each end of bridge.					
REQUIREMENT: The existing bridge was built in the early 40's and is in a continual state of deterioration. The bridge's load rating has been reduced to H-8.4 from the original H-15 and cannot support a full trucktractor-trailer load of explosives (33.3 tons). This effects shipping and handling of products and results in a potential for a serious incident. This is an IPP deferred deficiency item.					

1. COMPONENT	2. DATE									
FM 1391 MILITARY CONSTRUCTION PROJECT DATA										
ARMY-PBS	JAN 93									
3. INSTALLATION AND LOCATION										
Holston Army Ammunition Plant, Tennessee										
4. PROJECT TITLE	5. PROJECT NUMBER									
Replace Magazine Bridge										
6. REQUIREMENT (continued)										
<p><u>CURRENT SITUATION:</u> A study states that "the structure is in a continual deterioration and additional repair will be required regularly." The serviceable life of the pressure-treated timbers was 30 years. The bridge was built in the early 40's. Shipments must be loaded for the current bridge rating and not for highway gross weight allowable limits.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The bridge will continue capacity downgrading to a point that it will be unsafe for any traffic. A second safety concern is the potential of human error which could result in a vehicle on the bridge that exceeds the bridge capacity resulting in loss of property and potential loss of life.</p> <p><u>ADDITIONAL:</u> This is an M+0 requirement needed at M-day. The deferred deficiency Form 319-R has been submitted.</p> <p>The deferred deficiency Form 319-R has been submitted, however, an AMCOM Project Identification Code has not been assigned. Therefore, a code number is not available for inclusion with this DD1391.</p>										
7. SUPPLEMENTAL DATA:										
A. Estimated Design Data:										
(1) Status:										
<p>(a) Design Start Date ..... OCT 87</p> <p>(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100</p> <p>(c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100</p> <p>(d) Design Complete Date ..... OCT 89</p>										
(2) Basis:										
<p>(a) Standard or Definitive Design - Yes <input checked="" type="checkbox"/> No _____</p> <p>(b) Where Design Was Most Recently Used UNK</p>										
<p>(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$3000)</p> <p>(a) Production of Plans and Specifications ..... 300</p> <p>(b) All Other Design Costs ..... 300</p> <p>(c) Total Cost ..... 250</p> <p>(d) Contract ..... 50</p> <p>(e) In-house ..... 50</p>										
<p>(4) Construction Start ..... Mar 91</p> <p>month &amp; year</p>										
B. Equipment associated with this project which will be provided from other appropriations:										
<table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>None</td> <td></td> <td></td> <td>\$3000</td> </tr> </tbody> </table>			Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost	None			\$3000
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost							
None			\$3000							

1. COMPONENT ARMY-PBS	2. DATE JULY 89			
3. DESCRIPTION AND LOCATION Holston Army Ammunition Plant, Tennessee Modernize Steam Headers				
4. REQUEST ELEMENT 1025	5. PROJECT NUMBER 10507			
6. PROJECT COST 1,863				
7. COST ESTIMATES				
ITEM Primary Facility Equipment Rehab	U/M LS	QUANTITY -	UNIT COST -	COST \$1000 1,863 (1,863)
Subtotal				1,863
Contingency (5.00%)				93
Total Contract Cost				1,956
Supervision, Inspection & Overhead (5.50%)				108
Total Request				2,064
Total Request (Rounded)				2,050
Installed Equipment - Other Appropriations				(113)
8. Description of Proposed Construction		The following is a break down of the work for the steam headers on production Lines 9 thru 10. The Corps of Engineers portion is indicated by 'CE'.		
1. (CE) Perform testing of the 3 and 10 inch sections of the steam headers (upper line and lower line) by an independent agency to determine suitability for reuse.				
2. (CE) Replace sections or all of the headers as required as a result of the testing.				
3. Replace supports, traps and valves as necessary due to deterioration.				
(CE)				
4. Insulate the headers after replacement of lines, supports, traps and valves.				
5. Demolish/rehabilitate the collateral air lines.				
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None				
PROJECT: The purpose of this project is to rehabilitate the 8 and 10 inch east-west steam header facilities in Lines 9 and 10 and the 3 inch north-south steam header on Lines 9 and 10 to assure operability in the event of mobilization or high production requirements. Also, minor air line demolition/rehabilitation has been added to the scope of work.				

1. COMPONENT	2. DATE
FY 1991 MILITARY CONSTRUCTION PROJECT DATA	
ARMY-383	JAN 83
3. INSTALLATION AND LOCATION	
HOLSTON ARMY Ammunition Plant, Tennessee	
4. PROJECT TITLE	
Modernize Steam Headers	
5. REQUIREMENT: Continued	
<p><u>REQUIREMENT:</u> Replace/rehabilitate the existing deteriorated 3 and 10 inch east-west and north-south steam headers serving Lines 9 and 10. Replace supports, traps and valves as required. Insulate the steam headers after the corrections to the deteriorated headers have been completed.</p> <p>Modernization of the steam headers is essential to provide capability to operate Lines 9 and 10 for proveout and full production. These production lines are scheduled for modernization under projects 5873000A and 5913000B. The ability to meet mobilization and modernization requirements will not be attainable without this effort.</p>	
<p><u>CURRENT SITUATION:</u> The 10 inch east-west main steam header serving the upper portion of Lines 9 and 10 and the 3 inch north-south header serving the lower portion of these lines will be required for prove-out and future operation of the modernized Lines 9 and 10. Portions of the lines have deteriorated and require rehabilitation or replacement. In addition, steam line supports, traps and valves will require replacement.</p>	
<p><u>IMPACT IF NOT PROVIDED:</u> The capability of Lines 9 and 10 to meet modernization and mobilization production requirements will not be realized. Prove-out of the facilities cannot be completed. The industrial readiness posture of the facilities will not be improved. As is, the steam headers are unsafe and could result in injury to personnel, equipment, and facilities.</p>	
<p><u>ADDITIONAL:</u> This is a Group I Mobilization project. The project will not have a significant impact on the environment. An Environmental Assessment will be prepared and submitted at a later date. The safety site plan will be submitted if required, however, no change to the existing line placement is anticipated.</p> <p>A list and description of steam lines to be modernized will be submitted in lieu of a PDB in accordance with guidance from the Modernization Agency. A Pre-Budget P-15 will be submitted.</p>	
12. SUPPLEMENTAL DATA:	
A. Estimated Design Data:	
(1) Status:	
<p>(a) Design Start Date ..... <u>FEB 87</u></p> <p>(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... <u>100</u></p> <p>(c) Percent Complete As Of 01 October 90 (PROG YR) ..... <u>100</u></p> <p>(d) Design Complete Date ..... <u>DEC 87</u></p>	
(2) Basis:	
<p>(a) Standard or Definitive Design - Yes <u>  </u> No <u>  X  </u></p> <p>(b) Where Design Was Most Recently Used <u>HOLSTON RAP</u></p>	
(3) Total Cost (c) = (a)+(b) or (d)+(e). <u>5000</u>	
<p>(a) Production of Plans and Specifications ..... <u>  </u></p>	

1. COMPONENT	2. DATE		
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBG	JAN 83		
3. INSTALLATION AND LOCATION			
LOCATION: 5200 W. 10TH AVENUE, LOS ANGELES, CA	4. PROJECT NUMBER		
5. Project Name	100007		
6. SUPPLEMENTAL DATA Continued			
A. Estimated Design Data (Continued)			
(1) Total Cost: (Continued)	\$000		
(b) All Other Design Costs .....	105		
(c) Total Cost .....	105		
(d) Contract .....	52		
(e) In-house .....	53		
(4) Construction Start .....	APR 81		
month & year			
B. Equipment associated with this project which will be provided from other appropriations.			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost
None		\$000	

1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 93	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Walker Army Ammunition Plant, Tennessee		Metrology Laboratory	
5. PROGRAM ELEMENT		6. CATEGORY CODE	
7. PROJECT NUMBER		8. PROJECT JUST	
9. BOMA		10. BOMA	
11. COST ESTIMATES		12. COST	
ITEM	13. QUANTITY	14. COST	15. COST
Primary Facility			418
METROLOGY LABORATORY	17	-	418
Subtotal			418
Contingency (5.00%)			21
Total Contract Cost			439
Supervision, Inspection & Overhead (5.50%)			24
Total Request			463
Total Request (Rounded)			460
Installed Equipment - Other Appropriations			0
13. Description of Proposed Construction			
THE PRIMARY FACILITY IS PERMANENT METAL AND REINFORCED CONCRETE CONSTRUCTION. THE WORK IS NEW CONSTRUCTION TO REPLACE AN EXISTING STRUCTURE BUILT IN THE EARLY 1940'S. THE STRUCTURE IS A NONCOMBUSTIBLE STRUCTURE TO SERVE AS A METROLOGY (SCIENCE OF WEIGHTS AND MEASURES) LABORATORY, CONSTRUCTED TO EXACTING REQUIREMENTS THAT WILL HOUSE STATE OF THE ART MEASUREMENT EQUIPMENT. STRUCTURE WILL ALSO INCLUDE AN ARMS VAULT FOR THE STORAGE OF WEAPONS USED IN THIS INSTALLATIONS TESTING PROGRAM. THE NEW FACILITY WILL ALSO HAVE AN ENVIRONMENTALLY CONTROLLED CLEAN ROOM AREA TO HOUSE HIGHLY SENSITIVE EQUIPMENT. THE PROJECT WILL ALSO INCLUDE REQUIRED UTILITIES SERVICE, COMMUNICATIONS, FIRE PROTECTION AND ALARM SYSTEMS, WALKS, STORM DRAINAGE AND SITE IMPROVEMENTS. WORK WILL REQUIRE THE DEMOLITION OF A 3100 SF WOOD FRAME STORAGE BUILDING. NOT SITED IN A FLOOD PLAIN. ACCESSIBILITY FOR HANDICAPPED WILL BE PROVIDED.			
14. REQUIREMENT: 4,100 SF ADEQUATE: None SUBSTANDARD: 3,100 SF			
PROJECT: CONSTRUCTION OF A 4100 SF FACILITY THAT WILL SERVE AS A METROLOGY LABORATORY.			
REQUIREMENT: THIS PROJECT IS REQUIRED TO PROVIDE ADEQUATE SPACE FOR THE EQUIPMENT NEED TO CHECK AND CERTIFY GAUGES AND TOOLING USED IN THE LAP OF QUALITY PRODUCTS FOR THE US ARMY. EXISTING LABORATORY DOES NOT HAVE THE SPACE			

1. COMPONENT	2. DATE									
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA									
3. INSTALLATION AND LOCATION	JAN 89									
4. PROJECT TITLE	PROJECT NUMBER									
Milner Army Ammunition Plant, Tennessee	13063									
5. REQUIREMENT	Continued									
REQUIREMENT	Continued									
AVAILABLE TO ADD NEEDED EQUIPMENT THAT WILL INCREASE THE ACCURACY, EFFICIENCY AND VERSATILITY OF THE METROLOGY SECTION.										
CURRENT SITUATION: CURRENTLY THE METROLOGY LABORATORY IS HOUSED IN A FACILITY THAT IS TOO SMALL TO PROVIDE THE REQUIRED WORK AND STORAGE SPACE FOR PRESENT AND FUTURE NEEDS. NEW AND MORE SENSITIVE EQUIPMENT IS NEEDED TO MEET THE EVER INCREASING REQUIREMENT FOR A MORE EFFICIENT QUALITY ASSURANCE PROGRAM. BECAUSE OF THE SPACE LIMITATION THE LAB IS ONLY ABLE TO MEET THE MINIMUM ESSENTIAL METROLOGY ENVIRONMENTAL STANDARDS.										
IMPACT IF NOT PROVIDED: FAILURE TO APPROVE THIS PROJECT WILL RESULT IN THE CONTINUED USE OF A FACILITY THAT SERIOUSLY LIMITS THE CAPABILITIES OF THE METROLOGY LABORATORY.										
12. SUPPLEMENTAL DATA:										
A. Estimated Design Data:										
(1) Status:										
(a) Design Start Date ..... Feb 88										
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100										
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100										
(d) Design Complete Date ..... May 89										
(2) Basis:										
(a) Standard or Definitive Design - Yes _____ No _____										
(b) Where Design Was Most Recently Used _____										
(3) Total Cost (c) = (a)-(b) or (d)-(e) (\$000)										
(a) Production of Plans and Specifications ..... _____										
(b) All Other Design Costs ..... _____										
(c) Total Cost ..... _____										
(d) Contract ..... _____										
(e) In-house ..... _____										
(4) Construction Start ..... Mar 91										
month & year										
B. Equipment associated with this project which will be provided from other appropriations:										
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Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)							
None										

1. COMPONENT ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA				2. DATE JAN 83
3. INSTALLATION AND LOCATION Lone Star Army Ammunition Plant, Texas	4. PROJECT TITLE Pyrotechnic Production				
PROGRAM ELEMENT PROJECT NUMBER	5. APPROX. COST (1000 \$)				
IC# 136	13631				6. COST ESTIMATE
7. COST ESTIMATES					
ITEM	U.M.	QUANTITY	7.100% COST	7.100%	
<u>Primary Facility</u>				3,539	
MIGRAD PYRO FACILITY	SF	10,328	219.74	12,269	
EARTH BARRICADE	CY	1,429	9.22	13	
NEW RAMP	LF	315	150.36	471	
100% MAKE-UP HVAC W/CONTROLS	SF	8,256	99.78	824	
INTERIOR FIRE WATER SUPPLY	LS	-	-	13	
See Cost Estimates (Continued)				387	
<u>Supporting Facilities</u>				420	
Electric Service	LS	-	-	168	
Water, Sewer & Gas	LS	-	-	15	
Steam, Chilled Water & Heat Distribution	LS	-	-	102	
Paving, Walks, Curbs & Gutters	LS	-	-	5	
Storm Drainage	LS	-	-	1	
Site Improvement	LS	-	-	26	
Information Systems	LS	-	-	2	
Other	LS	-	-	101	
<u>Subtotal</u>				3,979	
Contingency (5.00%)				199	
Total Contract Cost				4,178	
Supervision, Inspection & Overhead (5.50%)				230	
Total Request				4,408	
Total Request (Rounded)				4,400	
Installed Equipment - Other Appropriations					
10. Description of Proposed Construction Construct a building for pyrotechnic production, sized to house technologically advanced pyrotechnic mixing, granulating, and drying (MIGRAD) and support systems. Functional requirements include 1) interim storage of pyrotechnic raw materials, 2) pre-formulation preparation of raw materials, 3) weighing of raw materials, 4) processing of pyrotechnic materials (MIGRAD process), 5) screening and remote material handling of pyrotechnic mixture, 6) inert storage capability, 7) interim storage of pyrotechnic mixtures, 8) maintenance activity, 9) office facilities, and 10) restroom facilities.					
The building will be integrated into an existing production line. Site work will include demolition of an existing black powder storage magazine and improvements to an existing Class F road. Parking areas, a service/access road to the rear of the MIGRAD facility, and interconnecting ramps between the MIGRAD building and other buildings shall be constructed. An earthen barricade shall be constructed to reduce intra-line separation between existing buildings and the MIGRAD facility.					
The building will be constructed with reinforced concrete slab on grade with conductive topping. Substantial dividing walls shall be constructed around rooms which process Class 1.1 pyrotechnic material. Walls separating					

1. COMPONENT	1. DATE																																						
FY 1991 MILITARY CONSTRUCTION PROJECT DATA																																							
ARMY-283	JAN 82																																						
2. INSTALLATION AND LOCATION																																							
Joint Base Lewis-McChord, Washington, Texas																																							
3. PROJECT TITLE																																							
4. PROJECT NUMBER																																							
Pyrotechnic Production																																							
5. Cost Estimates (Continued)																																							
<table border="1"> <thead> <tr> <th>Item</th> <th>U/M</th> <th>Quantity</th> <th>Unit</th> <th>Cost</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Primary Facility (Continued)</td> <td></td> <td></td> <td></td> <td></td> <td>\$000</td> </tr> <tr> <td>INTERIOR IND./POTABLE WATER DIST</td> <td>LS</td> <td>-</td> <td>-</td> <td>-</td> <td></td> </tr> <tr> <td>SANITARY SEWER W/FLOOR DRAIN</td> <td>LS</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> </tr> <tr> <td>HAZARDOUS WASTE COLL./TREATMENT</td> <td>LS</td> <td>-</td> <td>-</td> <td>-</td> <td>377</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Total</td> <td>387</td> <td></td> </tr> </tbody> </table>				Item	U/M	Quantity	Unit	Cost	Cost	Primary Facility (Continued)					\$000	INTERIOR IND./POTABLE WATER DIST	LS	-	-	-		SANITARY SEWER W/FLOOR DRAIN	LS	-	-	-	3	HAZARDOUS WASTE COLL./TREATMENT	LS	-	-	-	377				Total	387	
Item	U/M	Quantity	Unit	Cost	Cost																																		
Primary Facility (Continued)					\$000																																		
INTERIOR IND./POTABLE WATER DIST	LS	-	-	-																																			
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HAZARDOUS WASTE COLL./TREATMENT	LS	-	-	-	377																																		
			Total	387																																			
10. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)																																							
<p>rooms where fuels, oxidizers, and flammable materials are stored/processed shall be of fire resistant construction.</p> <p>Fire protection systems shall be included. A sprinkler system shall be installed for general building protection with a Halon system provided for the control room. Fire water supply shall be provided for user installed high speed deluge system (for equipment and personnel protection).</p> <p>Utility construction will include installation of primary electrical service, compressed air and steam distribution from existing headers, potable water and fire water supply from existing mains, and construction of a new sanitary sewer from the MIGRAD facility to the existing sanitary sewer.</p> <p>Waste water collection troughs in each of the remote processing bays will collect bay washdown contaminated water. Troughs to be connected to stainless steel collection/pre-treatment tanks located outside the building. A pump and piping system will be installed to allow pumping of waste water to the existing waste water treatment plant.</p> <p>A HVAC system with temperature and humidity control shall be installed for all areas in the building where pyrotechnic materials are stored and processed. 100% makeup air is required. Self-contained A/C units shall be provided for areas such as offices and control room. The heating source will be the existing Plant Steam System. Exhaust vents are required for rooms in which pyrotechnic material is stored or processed. Ventilation is also required for the Mechanical Room and the Restrooms.</p>																																							
11. REQUIREMENT: 10,328 SF ADEQUATE: None SUBSTANDARD: None																																							
<p><u>PROJECT:</u> This project will enhance personnel safety by providing facilities to house technologically advanced pyrotechnic mixing, granulating, and drying (MIGRAD) equipment.</p> <p><u>REQUIREMENT:</u> Additional facilities are required in order to house the MIGRAD equipment. There are no existing facilities available at the site which can be utilized. Existing pyrotechnic buildings cannot be used for two (2) primary reasons: 1) Existing buildings house mix-muller processing equipment which must be retained for the manufacture of those pyromixtures which cannot be manufactured in the MIGRAD. 2) Use of existing buildings for the MIGRAD operations would violate current safety regulations for Class 1.1 explosives.</p> <p><u>CURRENT SITUATION:</u> Using current methods, the production of a typical 30 pound batch quantity of pyrotechnic mixture require that the operator be</p>																																							

1. COMPONENT	2. DATE		
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA JAN 89		
3. INSTALLATION AND LOCATION			
Lone Star Army Ammunition Plant, Texas			
4. PROJECT TITLE	5. PROJECT NUMBER		
Pyrotechnic Production	09631		
6. REQUIREMENT (Continued)			
CURRENT SITUATION (Continued)			
exposed to hazardous material approximately sixty (60) times per batch. By way of contrast, the MIGRAD process coupled with remote material handling capability require the operator to be exposed to the pyrotechnic material only one (1) time per batch.			
<u>IMPACT IF NOT PROVIDED:</u> If this project is not approved, the MIGRAD Systems cannot be implemented and operator exposure to hazardous pyrotechnic materials cannot be reduced.			
<u>ADDITIONAL:</u> All appropriate measures will be taken to ensure that the health of the worker is protected within all Federal and State laws and regulations. This project has been reviewed for historic impact and complies with the intent of PL 89-665 and Executive Order 11593. This project has been reviewed and it has been determined that an Environmental Impact Statement pursuant to PL 91-190 is not required.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Jul 88		
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 90 (PROG YR)	100		
(d) Design Complete Date	Nov 89		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 91		
	month & year		
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
	None		

1. COMPONENT	2. DATE		
ARMY-PBS	JAN 30		
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Longhorn Army Ammunition Plant, Texas		Constituent Fire Station	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
700	15636	15636	643
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
<u>Primary Facilities</u> CONSTRUCT FIRE STATION	SF	6,688	51.91
<u>Supporting Facilities</u> SUPPORT FACILITIES	LS	-	-
<u>Subtotal</u>			554
Contingency (10.00%)			55
Total Contract Cost			609
Supervision, Inspection & Overhead (5.50%)			34
Total Request			643
Total Request (Rounded)			640
Installed Equipment - Other Appropriations			(0)
10. Description of Proposed Construction		Construct new fire station in accordance with U.S. Army Corps of Engineers standards. The design will be based on a modified standard floor plan. The floor plan will have space for a "two company headquarters" apparatus room but only "one company headquarters" administrative and dormitory space.	
11. REQUIREMENT:		5,688 SF ADEQUATE: None SUBSTANDARD: 5,831 SF	
PROJECT:		A safe, economical, and functional fire station is required which complies with the Department of Army standards.	
REQUIREMENT:		The existing fire station, building 709A, was constructed in 1942 with major modifications performed in the mid 1950's to provide additional space for personnel and equipment. Since then improvements have been minimal. A new facility is required to meet Department of Army standards.	
CURRENT SITUATION:		See Requirement paragraph above.	
IMPACT IF NOT PROVIDED:		If this project is not approved, the current facility will continue to deteriorate, resulting in costly maintenance and operating costs. Fire fighters and emergency personnel will continue to use substandard facilities.	

1. COMPONENT	2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA		
ARMY-PBS	JAN 91	
3. INSTALLATION AND LOCATION		
Long Beach Army Ammunition Plant, Texas		
4. PROJECT TITLE	5. PROJECT NUMBER	
Construct fire station		
6. REQUIREMENT (Continued)		
ADDITIONAL: An Economic Analysis is not necessary for this project. All potential alternatives were examined in development of the project and none were found to be feasible.		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	Nov 87	
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 90 (PROG YR)	100	
(d) Design Complete Date	AUG 89	
(2) Basis:		
(a) Standard or Definitive Design - Yes	No	
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)+(b) or (d)+(e) (\$000)		
(a) Production of Plans and Specifications		
(b) All Other Design Costs		
(c) Total Cost		
(d) Contract		
(e) In-house		
(4) Construction Start Mar 91		
month & year		
B. Equipment associated with this project which will be provided from other appropriations:		
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated Or Requested</u>
None		

1. COMPONENT	2. DATE		
ARMY-BBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA		
3. LOCATION AND LOCATION	4. PROJECT TITLE		
Longhorn Army Ammunition Plant, Texas	Pyrotechnic Safety Enhancement		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (000)
126	00464	2000	1,118
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	UNIT COST
<u>Primary Facility</u>			
MIGRAD Mixer Facility	sf	4,400	190.00
			335
<u>Supporting Facilities</u>			
Electric Service	LS	-	-
Water, Sewer & Gas	LS	-	-
Steam, Chilled Water & Heat Distribution	LS	-	-
Paving, Walks, Curbs & Gutters	LS	-	-
Information Systems	LS	-	-
			282
Subtotal			
Contingency (5.00%)			56
Total Contract Cost			1,174
Supervision, Inspection & Overhead (5.50%)			65
Total Request			1,239
Total Request (Rounded)			1,250
Installed Equipment - Other Appropriations			(0)
10 Description of Proposed Construction			
<p>This project is to construct a MIGRAD (Mixer, GRanulator, Dryer) mixing facility. The facility will house new technology mixers which are being developed/evaluated by Pine Bluff Arsenal per MMT Project 582/31709. Use of the MIGRAD mixer will eliminate hazardous traying, drying, and granulating operations. There are no suitable existing facilities at Longhorn AAP to house these mixers. The MIGRAD mixers require more head room than is provided in existing facilities. Alteration of existing facilities has been disallowed since new construction to raise the roof would not be in compliance with AMC-R 385-100 dated 1 August 1985 requirements.</p> <p>The operations area of the new mix facility will have two mixer bays, four raw material surge bays, two finished mix surge bays, passageways, an inert cart and blender-bucket conditioning area and a loading dock. The operations area of the facility is approximately 4400 sq ft. Wall design of the mixer and surge bays is to be in accordance with TM 5-1300. Requirements and arrangement of restroom facilities, equipment rooms, fire protection deluge valve room, etc is to be determined by the Design Agency. The facility is located within an existing pyrotechnic production facility. Connection to existing utility systems and provision of access roads and equipment pads for installation of AMC equipment is included in this project.</p>			

1. COMPONENT	2. DATE
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA JULY 88
3. INSTALLATION AND LOCATION	
Lorillard Army Ammunition Plant, Texas	
4. PROJECT TITLE	5. PROJECT NUMBER
Pyrotechnic Safety Enhancement	
6. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)	
Temperature and humidity conditioning is to be provided in the mixer and surge bays and heating and cooling are to be provided in other operational areas for comfort conditioning. Conditioning of mix and surge areas for a relative humidity of 50-55% at 68 to 78 degrees F is required to reduce processing hazards.	
A waste collection trench and sump are to be furnished to collect washdown products and contain any potential spill. Restroom facilities for male and female operators will be needed. Connection to existing electrical, steam, compressed air, telephone, potable water, fire water and sewer lines will be required. These utilities are in near proximity to the proposed facility.	
Equipment pads and access roads are needed for installation and maintenance of AMC process support equipment. Two pads with access roads are needed. The pads should be 30 ft by 40 ft. They should be of concrete or other suitable material to provide all weather access.	
7. REQUIREMENT: 4,400 SF ADEQUATE: None SUBSTANDARD: None	
PROJECT: Safety needs to be improved by reducing personnel exposure to hazardous operations and materials. This can be accomplished by use of the new technology MIGRAD mixers to eliminate certain manual traying, drying, and granulation processes.	
REQUIREMENT: This project is needed to provide processing improvements which will enhance safety. Numerous flashes have occurred at this, and other, pyrotechnics producing plants. These flashes have resulted in injuries, fatalities, equipment and facility damage, lost production time and increased item cost.	
CURRENT SITUATION: Pyrotechnic compositions are being produced using processes and equipment which are of World War II vintage. These processes often require mixing and multiple drying and granulating steps. These operations require excessive operator exposure to energetic and unpredictable materials.	
IMPACT IF NOT PROVIDED: Employee exposure to hazardous materials and operations would remain at the current high levels. The benefits to be derived from the pacing MM&T development work would not be implemented.	
ADDITIONAL: A Format 3 economic analysis has been prepared for this project and is included in this document.	
The status quo is not an acceptable alternative. It requires too much operator exposure to sensitive materials and operations.	
12. SUPPLEMENTAL DATA:	
A. Estimated Design Data:	
(1) Status:	
(a) Design Start Date ..... Aug 88	
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100	
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100	

1. COMPONENT	2. DATE		
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION			
Longhorn Army Ammunition Plant, Texas	4. PROJECT NUMBER		
5. Project Name: Fort Hood Enhancement			
6. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data: (Continued)			
(1) Status: (Continued) (d) Design Complete Date ..... Nov 89			
(2) Basis: (a) Standard or Definitive Design - Yes No (b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (a) Production of Plans and Specifications ..... (b) All Other Design Costs ..... (c) Total Cost ..... (d) Contract ..... (e) In-house .....			
(4) Construction Start ..... Apr 91 month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost
None			

1. COMPONENT	FY 1981 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
ARMY-PBS				2/15/81
3. INSTALLATION AND LOCATION		4. PROJECT TITLE		
Longhorn Army Ammunition Plant, Texas		Construct MUSALL Complex		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. DATE
190	11139	1000000000	100,000 LS	2/15/81
10. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST
<b>Primary Facility</b>				
Steam Plant	LS	-	-	10,550
Electrical Distribution Systems	LS	-	-	11,378
Water Distribution and Sewage	LS	-	-	11,556
Site Preparation	LS	-	-	5,509
<b>Subtotal</b>				46,550
<b>Contingency (10.00%)</b>				4,655
<b>Total Contract Cost</b>				51,105
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>				2,816
<b>Total Request</b>				53,921
<b>Total Request (Rounded)</b>				54,000
<b>Installed Equipment - Other Appropriations</b>				
11. Description of Proposed Construction				
This project is the first year of a five year effort to provide a turnkey (design/construct/prove-out) MUSALL facility. This first year's effort will include:				
<ul style="list-style-type: none"> <li>(a) Site Preparation</li> <li>(b) Electrical Distribution System</li> <li>(c) Water and Sewage Distribution System</li> <li>(d) Centralized Steam Plant</li> </ul>				
12. REQUIREMENT: 1,445,000 LS ADEQUATE: 317,000 LS SUBSTANDARD: 300,000 LS				
PROJECT: Capacity to produce 500,000 lbs/mo of HMX and its associated final products.				
REQUIREMENT: To provide timely facilities to meet future HMX requirements.				
CURRENT SITUATION: Current production facility cannot meet future HMX requirements.				
IMPACT IF NOT PROVIDED: If this project is not funded, the Army would be unable to meet its future HMX requirements. In addition, this country would have to continue relying on Holston AAP as its only source of HMX, thus bearing the risk of production loss through a single act of sabotage or major industrial accident.				

1. COMPONENT		2. DATE										
FY 1991 MILITARY CONSTRUCTION PROJECT DATA												
ARMY-223		JAN 92										
3. INSTALLATION AND LOCATION												
Conradina Army Ammunition Plant, Texas												
4. PROJECT NAME		5. PROJECT NUMBER										
Construct MUSALL Complex		01139										
6. REQUIREMENT Continues												
IMPACT IF NOT PROVIDED: Continues												
7. SUPPLEMENTAL DATA												
A. Estimated Design Data:												
(1) Status:												
(a) Design Start Date ..... Jan 89												
(b) Percent Complete As Of 31 January 90 (EDGT YR) ..... 25												
(c) Percent Complete As Of 31 October 90 (PROG YR) ..... 35												
(d) Design Complete Date ..... Dec 91												
(2) Basis:												
(a) Standard or Definitive Design - Yes No												
(b) Where Design Was Most Recently Used												
(3) Total Cost (c) = (a)-(b) or (d)-(a) (5000)												
(a) Production of Plans and Specifications .....												
(b) All Other Design Costs .....												
(c) Total Cost .....												
(d) Contract .....												
(e) In-house .....												
(4) Construction Start Apr 92												
month & year												
B. Equipment associated with this project which will be provided from other appropriations:												
<table border="1"> <thead> <tr> <th rowspan="2">Equipment Nomenclature</th> <th rowspan="2">Procuring Appropriation</th> <th colspan="2">Fiscal Year</th> </tr> <tr> <th>Appropriated Or Requested</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td colspan="4">None</td> </tr> </tbody> </table>			Equipment Nomenclature	Procuring Appropriation	Fiscal Year		Appropriated Or Requested	Cost	None			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year										
		Appropriated Or Requested	Cost									
None												

1. COMPONENT	2. DATE			
FY 1991 MILITARY CONSTRUCTION PROJECT DATA				
3. ARMY-PBS	4. PROJECT NUMBER			
5. INSTALLATION AND LOCATION		5. PROJECT NUMBER		
6. ADDRESS		7. PROJECT NUMBER		
7. PROGRAM ELEMENT	8. CONTRACT NUMBER	9. PROJECT NUMBER	10. PROJECT NUMBER	11. PROJECT NUMBER
12. CDS	13. CSD	14. CSD	15. CSD	16. CSD
9. COST ESTIMATES				
ITEM	17. CSD	18. CSD	19. CSD	20. CSD
Primary Facility				
Barricades	LSI	-	-	1,305
Subtotal				1,305
Contingency (10.00%)				101
Total Contract Cost				1,406
Supervision, Inspection & Overhead (5.50%)				51
Total Request				1,457
Total Request (Rounded)				1,458
Installed Equipment - Other Appropriations				
10. Description of proposed construction	Completely remove and reconstruct barricades for five active propellant operating buildings. Not sited in a flood plain.			
11. REQUIREMENT	None ADEQUATE. None SUBSTANDARD. None			
PROJECT	Replace one multi-story and four single-story double revetted wooden, earth filled barricades with one multi-story and four single-story barricades. The project must remove and reinstall utilities, process piping and ductwork passing through or attached to the barricades. Also, the floors and roofs through the barricade portals are to be replaced. Deteriorated escape chutes and support framing are to be replaced and the surface drainage is to be diverted away from the barricade foundation. Upgrade the electrical lighting and wiring to meet the latest codes. NOTE: Rather than upgrade the 1940's open wiring and nonconforming electrical at all the facilities at RAAP at one time, it has previously been decided to correct the conditions when major work is performed on individual buildings. New wiring and conduit on barricades corrects the majority of the requirements.			
REQUIREMENT	This project is the twelfth phase of an annual replacement program for the barricades at this plant which were erected in the 1940-41 period. Fifty-four barricades in Phase 1 (FY-80) through Phase VII (FY-86) have been completed. Thirteen barricades are being replaced in FY-87 and			

1. COMPONENT	1. DATE									
FY 1991 MILITARY CONSTRUCTION PROJECT DATA										
2. ARMY-PBS	JAN 89									
3. INSTALLATION AND LOCATION										
Radford Army Ammunition Plant, Virginia										
4. PROJECT TITLE	PROJECT NUMBER									
Replace Five Barricades										
5. REQUIREMENT (Continued)										
REQUIREMENT (Continued)										
FY-88. Repairs to many of these barricades have become excessive and cannot keep up with the rate of deterioration, and the structural integrity cannot be assured.										
CURRENT SITUATION: 240 barricades are required at this plant to meet current production schedules and for mobilization. A portion of these can be maintained for the next 20 years. The remaining ones must be replaced because of decaying of the major structural components. A replacement program has been started to renew the barricades at these buildings, a few each year, beginning with the ones that are in greatest need of replacement.										
IMPACT IF NOT PROVIDED: Without adequate barricades, RAAP could not continue to operate within existing intraline quantity distances										
6. SUPPLEMENTAL DATA										
A. Estimated Design Data:										
(1) Status:										
(a) Design Start Date ..... Aug 89										
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... 100										
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... 100										
(d) Design Complete Date ..... Dec 89										
(2) Basis:										
(a) Standard or Definitive Design - Yes ____ No ____										
(b) Where Design Was Most Recently Used _____										
(3) Total Cost (c) = (a)-(b) or (d)-(e) (\$000)										
(a) Production of Plans and Specifications _____										
(b) All Other Design Costs _____										
(c) Total Cost _____										
(d) Contract _____										
(e) In-house _____										
(4) Construction Start ..... Apr 91										
month & year										
B. Equipment associated with this project which will be provided from other appropriations:										
<table border="1"> <thead> <tr> <th>Equipment Nomenclature</th> <th>Procuring Appropriation</th> <th>Fiscal Year Appropriated Or Requested</th> <th>Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td colspan="4">None</td> </tr> </tbody> </table>			Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)	None			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)							
None										

1. COMPONENT	2. DATE			
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA 10/10/89			
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
Radford Army Ammunition Plant, Virginia Fuel Storage and Dispensing Station				
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT TITLE	9. FUNDING SOURCE
78011A	All	10501	Fuel Storage and Dispensing Station	10501
9. COST ESTIMATES				
ITEM	AMOUNT	QUANTITY	NET COST	BEST ESTIMATE
Primary Facility Fuel Storage and Dispensing Stat	15	-	-	767
Subtotal				767
Contingency (10.00%)				77
Total Contract Cost				844
Supervision, Inspection & Overhead (5.50%)				46
Total Request				890
Total Request (Rounded)				890
Installed Equipment - Other Appropriations				0
10. Description of Proposed Construction: Provide facilities for bulk storage and dispensing of diesel and gasoline fuels. Major items to include site work, utilities, installation of underground tanks, piping from storage to dispensing units, installation of dispensing pumps, construction of prefabricated metal storage building, piping for storm drainage, installation of oil-water separator, paving, and area lighting.				
11. REQUIREMENT: 28,229 sf ADEQUATE: None SUBSTANDARD: 19,700 sf PROJECT: Provide facilities for bulk storage and dispensing of diesel and gasoline fuels. Major items to include site work, utilities, installation of underground tanks, piping from storage to dispensing units, installation of dispensing pumps, construction of prefabricated metal storage building, piping for storm drainage, installation of oil-water separator, paving, and area lighting.				
TOTAL REQUIREMENT:				
1. 25,000 gallons of diesel fuel storage capacity. 2. 40,000 gallons of gasoline storage capacity. 3. 28,000 square feet of paved surface for dispensing facilities. 4. 229 square feet of enclosed storage capacity.				
EXISTING SUBSTANDARD:				

1. COMPONENT	2. DATE	
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA JAN 89	
3. INSTALLATION AND LOCATION		
Ballistic Army Ammunition Plant, Mississippi		
4. PROJECT TITLE	5. PROJECT NUMBER	
Fuel Storage and Dispensing Station	19901	
6. REQUIREMENTS (Continued)		
PROJECT (Continued)		
1. 13,540 gallons of diesel fuel storage capacity. 2. 33,340 gallons of gasoline storage capacity. 3. 19,500 square feet of paved surface for dispensing facilities. 4. 200 square feet of enclosed storage capacity.		
REQUIREMENT: The new facility is needed to provide a reliable, nonpolluting and safe method for storing and dispensing fuels for plant vehicles.		
CURRENT SITUATION: Diesel fuel is now stored in two 5,770 gallon tanks. Gasoline is stored in three tanks (total capacity - 33,340 gallons). These tanks do not provide adequate capacity and are in need of replacement. The main gasoline dispensing facility is currently located in the parking lot at Building 241. Motor oil, antifreeze, and other needed accessories are stored in Building 241.		
IMPACT IF NOT PROVIDED: Continued use of present storage facilities poses a safety and contamination hazard as well as unreliable service. If main dispensing station is not moved, the safety problems from proximity to the Internal Ballistics Laboratory will continue to exist.		
ADDITIONAL: Format B has been prepared and is included in the P-15.		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date ..... <u>Feb 89</u>		
(b) Percent Complete As Of 01 January 90 (BDGT YR) ..... <u>100</u>		
(c) Percent Complete As Of 01 October 90 (PROG YR) ..... <u>100</u>		
(d) Design Complete Date ..... <u>Dec 89</u>		
(2) Basis:		
(a) Standard or Definitive Design - Yes <u>—</u> No <u>—</u>		
(b) Where Design Was Most Recently Used <u>—</u>		
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)		
(a) Production of Plans and Specifications ..... <u>—</u>		
(b) All Other Design Costs ..... <u>—</u>		
(c) Total Cost ..... <u>—</u>		
(d) Contract ..... <u>—</u>		
(e) In-house ..... <u>—</u>		
(4) Construction Start ..... <u>Apr 91</u> month & year		

1. COMPONENT	2. DATE	
ARMY-PBS	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION	FORT CARSON	
4. PROJECT NUMBER	1391C	
5. PROJECT TITLE	Fuel Storage and Dispensing Station	
6. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested Cost (\$000)
None		

DD FORM 1 DECEMBER 1974 1391C

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